

ANNUAL REPORT
OF THE
Department of Lands and Forests
OF THE
PROVINCE OF ALBERTA
FOR THE
FISCAL YEAR ENDED MARCH 31st
1954

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY



EDMONTON
PRINTED BY A. SHNITKA, QUEEN'S PRINTER
1954

To the Honourable J. J. Bowlen,
Lieutenant-Governor of the Province of Alberta.

SIR:

I have the honour to submit the Report of the
Department of Lands and Forests for the fiscal year
ended March 31st, 1954.

I have the honour, to be, Sir,

Your obedient servant,
IVAN CASEY,
Minister of Lands and Forests.

Edmonton, October 18, 1954.

TABLE OF CONTENTS

REPORT OF THE DEPUTY MINISTER	9
I—LANDS ADMINISTRATION	
Report of the Public and School Lands Division	10
II—FORESTRY ADMINISTRATION	
Report of the Director of Forestry	24
Report of the Senior Superintendent, Eastern Rockies Forest Reserves	45
III—FISHERIES AND GAME ADMINISTRATION	
Report of the Fish and Game Commissioner	48
IV—TECHNICAL DIVISION	
Report of the Technical Division	58
V—ACCOUNTS ADMINISTRATION	
Report of the Accountant	77
VI—REGISTRATION DIVISION	
Report of the Registrar	88
VII—PROVINCIAL PARKS	91
VIII—PERSONNEL	96

CHIEF OFFICERS
DEPARTMENT OF LANDS AND FORESTS
March 31st, 1954.

Honourable Ivan Casey.....*Minister of Lands & Forests*
H. G. Jensen.....*Deputy Minister Lands & Forests*
V. A. Wood.....*Director of Lands*
E. P. Shaver.....*Asst. Director of Lands*
E. S. Huestis.....*Director of Forestry*
J. R. H. Hall.....*Asst. Director of Forestry*
J. L. Jannsen.....*Chief Timber Inspector*
A. Earnshaw.....*Radio Superintendent*
D. Buck.....*Supt. Brazeau-Athabasca Forest
Area*
C. Harvie.....*Supt. Provincial Parks*
E. S. Huestis.....*Fish and Game Commissioner*
D. E. Forsland.....*Superintendent of Game*
H. B. Watkins.....*Superintendent of Fisheries*
T. W. Dalkin.....*Director, Technical Division*
H. Soley.....*Asst. Director, Technical Division*
A. McCallum.....*Administrative Accountant*
C. B. Kenway.....*Registrar*
Miss R. Lavallee.....*Personnel Officer*
Mrs. L. M. Brown.....*Stationery & Supplies*

EASTERN ROCKIES FOREST CONSERVATION BOARD

Major General Howard Kennedy,
C.B.E., M.C., B.Sc.,.....*Chairman*
G. Tunstell.....*Deputy Chairman*
H. G. Jensen.....*Member*
F. V. Keats.....*Supt. Clearwater Forest Reserve*
S. R. Hughes.....*Supt. Bow River Forest Reserve*
F. N. H. Lind.....*Supt. Crowsnest Forest Reserve*

REPORT
OF THE
Department of Lands and Forests
1953 - 1954

HONOURABLE IVAN CASEY,
Minister of Lands and Forests,
Edmonton.

SIR:

I have the honour to submit the fifth annual report of the Department of Lands and Forests for the fiscal year ending March 31st, 1954.

Respectfully submitted,

H. G. JENSEN,
Deputy Minister.

Edmonton, September 13, 1954.

Public and School Lands Administration

REPORT OF THE DIRECTOR OF LANDS, V. A. WOOD

During the fiscal year under review there were 82,250 items of outgoing mail from the Lands Division, compared to 98,649 items for the previous fiscal year. This is a decrease of approximately 16 per cent. However, the number of leases and sales is greater than in the previous year. Part of this decrease in the mail is due to a consolidation of various forms and a change in billing procedure and does not represent much of a decrease in the volume of business conducted by the division.

There was no further clearing and breaking done under contract in the year 1953. The units completed under the Alberta Clearing and Breaking Project during the previous year were offered for homestead lease, also 43 units partially brushed and piled in township 82, ranges 10 and 11, west of the 6th meridian. Seven applications were received.

The Western Provincial Land Directors' Conference was held in Winnipeg from August 10th to 14th, inclusive. The conference was attended by representatives of the Lands Divisions from Alberta, Saskatchewan and Manitoba. The report of the conference includes several recommendations regarding problems of public land administration. These recommendations are now receiving the attention of departmental officials.

In the early part of 1953 the government decided that all homestead leases should be inspected in the fourth or fifth year of the lease to ascertain if the duties were being performed satisfactorily. These inspections were started in the summer of 1953 and necessitated employing three additional temporary inspectors.

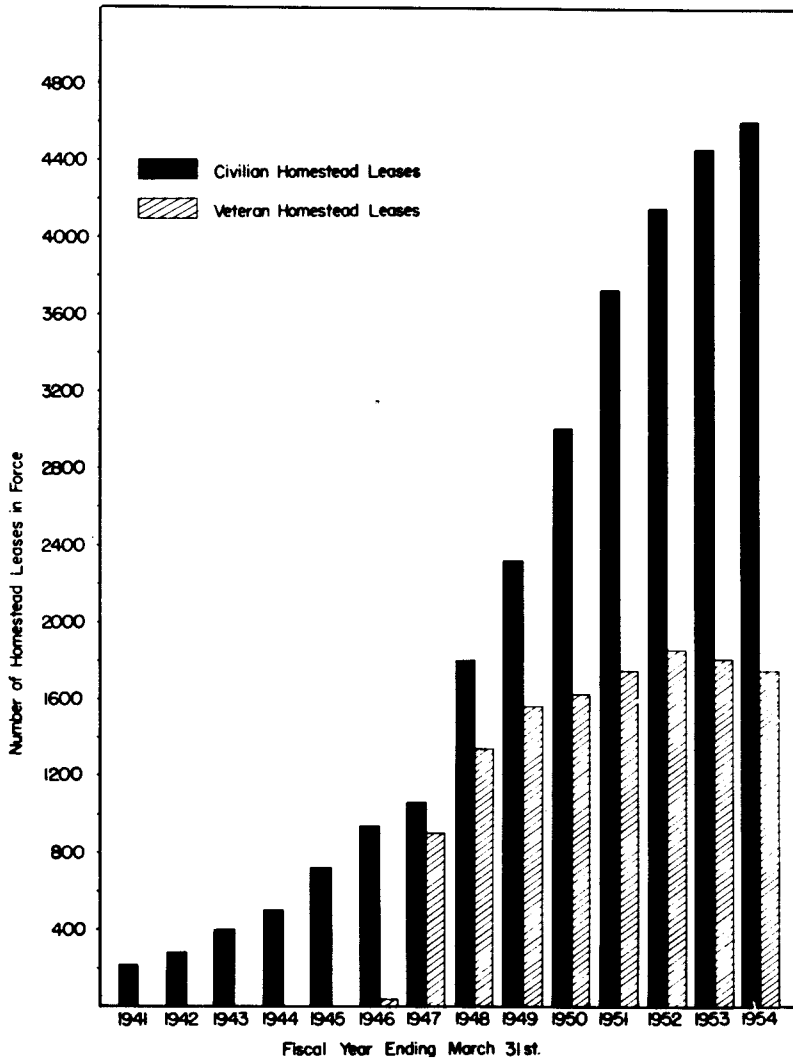
The newly surveyed portions of township 82, ranges 7, 9, 10 and 11, west of the 6th meridian, township 83, ranges 12 and 13, west of the 6th meridian, townships 67 and 68, range 22, west of the 5th meridian, township 71, ranges 16 and 17, west of the 5th meridian, were advertised as available for homestead leases at a temporary sub-agency held in the town of Grande Prairie on the 26th and 27th of May, 1953. There were 89 applications accepted at this temporary sub-agency. The newly surveyed portions of township 94, range 21, west of the 5th meridian and township 96, range 21, west of the 5th meridian, were advertised and made available for the acceptance of applications for homestead leases at a temporary sub-agency held in the town of Peace River on the 29th of May, 1953. There were 5 applications accepted at this temporary sub-agency. Since these lands became available further applications for homestead leases have been accepted.

During the fiscal year surveys of the following townships were wholly or partially completed and these townships will be made available for the acceptance of applications for homestead leases at Grande Prairie on the 24th of June, 1954.

township 70, range 21, west of the 5th meridian
 township 83, range 11, west of the 6th meridian
 township 84, range 11, west of the 6th meridian
 township 83, range 12, west of the 6th meridian
 township 84, range 12, west of the 6th meridian

A total of 859 veteran and civilian homestead leases were issued during the fiscal year, a decrease of 140 from the 999 issued for the previous fiscal year.

On March 25th, 1939, the granting of homesteads was discontinued and was replaced by the establishment of agricultural lease regulations. The first "agricultural lease" which is now designated "homestead lease" was issued on September 1st, 1940. Since that time the number of leases in force has been increasing steadily as shown on the accompanying diagram.



ORDERS-IN-COUNCIL

The following are a few of the more important orders-in-council pertaining to the Lands Division which were passed during the fiscal year. The date given for each order-in-council is the date of the Alberta Gazette in which the order-in-council appeared.

O. C. 499-53, April 30th, 1953.

Provision was made to grant the Minister the right to lease partially brushed and cleared units and to collect the cost of brushing, clearing, etc. In accordance with this order-in-council 43 units, partially cleared and brushed by Lassiter's Limited, in the Blueberry Mountain area, were advertised and made available to the public.

O. C. 633-53, May 15th, 1953.

This order-in-council established a new tariff of fees.

O. C. 705-53, June 15th, 1953.

This order-in-council authorized the issue of a sand prospecting permit in township 85, range 21, west 5th meridian. This is the first permit of this type issued for the manufacture of glass and glass products.

O. C. 1308-53, September 30th, 1953.

Under authority of this order-in-council a seed crop lease was issued in the Fort Vermilion district on a large area of land which was classified as unsuitable for homestead lease purposes. This is the first lease of this type issued by the department.

O. C. 89-54, January 30th, 1954.

Authorized the withdrawal of all lands situated in the Bow West Special Area Number 4. The public lands in this former special area are in the process of being transferred to the Department of Lands and Forests for administration.

The registration of assignments of Crown Lands Act was repealed during the 1953 session of the legislature which means that no further unearned increment tax will be collected for assignments of leases, permits or sales of public lands administered by the Lands Division. In lieu of the unearned increment tax a schedule of fees for assignments has been established.

CROP CONDITIONS

The spring was unusually early and dry, consequently seeding commenced about April 2nd in the south, becoming general by May 12th and was completed by the end of May.

Harvesting commenced at Medicine Hat about August 15th and extended northward to Bonnyville and into the Peace River by the 20th but did not become general until September 10th.

For the third year in succession Alberta harvested a much better than average crop. According to September estimates the yields per

acre of principal cereal crops in bushels, (1908 - 1953 averages in brackets) were as follows: wheat 24.1 (18.2); oats 46.7 (30.4); barley 33.0 (20.6); fall rye 22.9; spring rye 18.9 (fall rye 15.5); and flax seed 12.8 (8.6).

The overall quality of Alberta's grain crop in 1953 was generally good. In the southeast a good proportion of the wheat graded No. 2 Northern. However, grades shaded off rapidly in a westerly and northerly direction until only a small percentage of the total in northern areas graded above No. 3. Quality was a little better in the Peace River district. It is estimated that only 10 to 15 per cent of the oats and barley graded better than feed.

Prices estimated by the Canadian Wheat Board for crop year commencing August 1st, 1953, basis in store at Fort William for No. 1 grades were:

Wheat	\$1.40
Oats	.65
Barley	.98

Flax and rye were again sold on the open market and prices for 2CW flax were \$2.58 1/2 at September 1st, 1953, \$2.30 1/2 at October 1st, 1953 and \$2.10 at March 1st, 1954. Rye 2CW was 75 1/2 cents, 82 cents and 72 cents on the same dates.

In 1953, yields of less than 4 bushels per acre for wheat, 5 bushels of oats, barley and rye, 3 bushels of flax, and other crops where the value of the yield was less than \$3.00 per acre, were considered a failure.

The initial delivery quota at all stations for the 1953-54 crop year was three bushels per "specified acre" or a maximum of 500 bushels, and increased to 6 and 7 bushels by May 15th, 1954.

No adjustments have been declared on 1953 grain.

Prices on grass seed remained steady but far below 1951 quotations.

Canadian Wheat Board adjustments on bonus payments have been taken over by the Accounts Division and will probably be included in their report.

Final returns and crop share settlements are becoming more difficult each year mainly because of the quota system and to a lesser extent by the increase in combine threshing, as the machines do not tally the grain threshed.

SALES OF LAND

During the fiscal year, a total of 356 parcels of school and public lands were offered for sale by public auction throughout the province. 194 of these parcels were public lands and of this number 126 parcels were sold. The lands located in areas reserved from settlement are

not being offered for sale. In the settlement area, only school lands and lands unsuitable for homesteading are offered for sale by auction. The average price received for the public and school lands sold by auction was \$16.50 per acre. This is lower than the average for the preceding year but is considered satisfactory. The highest price paid for a parcel of land was \$57.00 per acre, at the Vulcan sale.

SUB-AGENCIES

Public land sub-agencies were maintained at Bonnyville, Lac La Biche, Peace River, Edson, Rocky Mountain House and Grande Prairie. The Office of Information, Calgary, was also continued.

Temporary sub-agencies for one or two days a month were continued at High Prairie, Falher, Manning, Hines Creek, Valleyview, Cherry Point, Spirit River and Fort Vermilion.

INSPECTIONS

The inspection work was carried out by fourteen permanent and four temporary inspectors. During the winter and early spring, when unable to work in the field, the permanent inspectors were preparing lists of land to be offered for sale by public auction and doing other office work. They also conducted the auction sales of school and public lands throughout the province.

The following is a summary of field inspections:

Soil Survey (Applications for homestead leases):

Requests outstanding at April 1st, 1953	282
No. of reports called during fiscal year	1445
No. of reports received during fiscal year	1215
Reports outstanding at March 31st, 1954	512

General, Grazing and School Lands:

Requests outstanding at April 1st, 1953	1806
No. of reports called during fiscal year	4281
No. of reports received during fiscal year	4649
Reports outstanding at March 31st, 1954	1438

COLLECTIONS

The Inspector of Collections was in the field from early April until late December, when weather conditions made further travel impracticable. Approximately 575 calls were made, including collections and inspections in connection with applications for renewal of cultivation leases, in all parts of the province, except the Peace River area. During the winter of 1954 arrangements were carried out for holding sales of Crown lands.

Collections of \$58,674.08, including old accounts were remitted to the Department by the Inspector of Collections and he also obtained a large number of grain storage tickets, clearing up several old accounts although hindered by the movement of lessees seeking employment other than farming.

The following is a summary of other business transacted:

ACCRUED AREA LEASES	<u>Number</u>	<u>Area in Acres</u>
Leases in force at April 1, 1953 _____	787	48,037.64
Leases issued during fiscal year _____	68	3,309.42
Leases cancelled during fiscal year _____	64	4,502.76
Leases in force at March 31, 1954 _____	791	46,844.30

HOMESTEAD LEASES - CIVILIAN

Leases in force at April 1, 1953 _____	4,482	1,040,533.24
Leases issued during fiscal year _____	747	193,145.70
Leases cancelled during fiscal year _____	505	129,171.57
Leases patented during fiscal year _____	115	22,139.56
Leases in force at March 31, 1954 _____	4,609	1,082,367.81

HOMESTEAD LEASES - VETERAN

Leases in force at April 1, 1953 _____	1,807	489,453.36
Leases issued during fiscal year _____	112	32,271.02
Leases cancelled during fiscal year _____	101	28,082.73
Leases patented during fiscal year _____	76	19,297.72
Leases in force at March 31, 1954 _____	1,742	474,343.93

CLEARING PROJECT LEASES INCLUDED IN THE ABOVE TWO SECTIONS AT MARCH 31, 1954.

Civilian _____	50	16,050.01
Veteran _____	167	53,517.06
Total _____	217	69,567.07

LICENSES OF OCCUPATION

Licenses in force at April 1, 1953 _____	290	6,465.16
Licenses issued during fiscal year _____	60	2,499.90
Licenses cancelled during fiscal year _____	23	247.67
Licenses in force at March 31, 1954 _____	327	8,717.39

MISCELLANEOUS LEASES

Leases in force at April 1, 1953 _____	246	9,199.29
Leases issued during fiscal year _____	48	707.37
Leases cancelled during fiscal year _____	33	1,220.46
Leases in force at March 31, 1954 _____	261	8,686.20

TOWNSITE LEASES

Leases in force at April 1, 1953 _____	1	(Lot)
Leases issued during fiscal year _____	2	45.70
Leases cancelled during fiscal year _____	0	—
Leases in force at March 31, 1954 _____	3	45.70

MINERAL SURFACE LEASES	<u>Number</u>	<u>Area in Acres</u>
Leases in force at April 1, 1953 _____	10 _____	17,477.18
Leases issued during fiscal year _____	5 _____	721.44
Leases cancelled during fiscal year _____	3 _____	200.10
Leases in force at March 31, 1954 _____	12 _____	17,998.52

FUR FARM LEASES

Leases in force at April 1, 1953 _____	5 _____	1,825.20
Leases issued during fiscal year _____	0 _____	_____
Leases cancelled during fiscal year _____	1 _____	895.90
Leases in force at March 31, 1954 _____	4 _____	929.30

CULTIVATION LEASES

Leases in force at April 1, 1953 _____	560 _____	101,175.43
Leases issued during fiscal year _____	61 _____	19,529.49
Leases cancelled during fiscal year _____	38 _____	6,926.32
Leases in force at March 31, 1954 _____	583 _____	113,778.60

PUBLIC LANDS SALES

Sales in force at April 1, 1953 _____	619 _____	73,435.80
Sales granted during fiscal year _____	363 _____	38,016.71
Sales cancelled during fiscal year _____	5 _____	719.19
Sales patented during fiscal year _____	193 _____	10,739.25
Sales in force at March 31, 1954 _____	784 _____	99,994.07

ROAD ALLOWANCE LEASES

Leases in force at April 1, 1953 _____	999 _____	47,556.02
Leases issued during fiscal year _____	186 _____	9,546.62
Leases cancelled during fiscal year _____	29 _____	746.26
Leases in force at March 31, 1954 _____	1156 _____	56,356.38

RIGHTS OF ENTRY

Rights of Entry in force at April 1, 1953 _____	430
Applications received during fiscal year _____	302
Rights of Entry cancelled during fiscal year _____	134
Rights of Entry granted during fiscal year _____	235
Applications pending at March 31, 1954 _____	290
Rights of Entry in force at March 31, 1954 _____	531

EASEMENTS

Leases in force at April 1, 1953 _____	35
Leases issued during fiscal year _____	60
Leases cancelled during fiscal year _____	0
Leases in force at March 31, 1954 _____	95

QUARRYING LEASES

Number

Leases in force at April 1, 1953 _____ 30
 Leases issued during fiscal year _____ 0
 Leases cancelled during fiscal year _____ 10
 Leases in force at March 31, 1954 _____ 20
 These quarrying leases cover sand and gravel only.

SAND AND GRAVEL LEASES

Leases in force at April 1, 1953 _____ 94
 Leases issued during fiscal year _____ 23
 Leases cancelled during fiscal year _____ 13
 Leases in force at March 31, 1954 _____ 104

NOTIFICATIONS FOR TITLE

(Homesteads and Soldier Grant Entries)

Applications for Notification for Title on
 hand April 1, 1953 _____ 55
 Applications for Title received during
 fiscal year _____ Nil
 Notifications for Title issued during
 fiscal year _____ 5
 Applications on hand (Checked and waiting
 completion) _____ 50
 Unpatented Homesteads and Soldier Grants 51

MISCELLANEOUS PERMITS

NumberArea in Acres

Issued during fiscal year _____ 725 _____

MISCELLANEOUS PERMITS (TRAPPERS CABINS)

Issued during fiscal year _____ 220

GRAZING PERMITS

Issued _____ 1,467 _____ 288,655.54

CULTIVATION PERMITS

Issued _____ 64 _____ 1,805.05

HAY PERMITS

Issued _____ 496
 (Total number of tons - 6,479)

HAY SEIZURES

Seizures _____ Nil

SAND AND GRAVEL PERMITS	<u>Number</u>	<u>Area in Acres</u>
Issued _____	33 _____	_____
(Total extraction - 8,700 yards)		

SAND AND GRAVEL RESERVATIONS

To Department of Highways, Municipal
Districts and Cities _____ 181
(For calendar year total extraction 517,629 yards)

To Government of Canada _____ 6
(For calendar year total extraction 329,928 yards)

ASSIGNMENTS REGISTERED

(Leases, Permits and Sales) _____ 186

GRAZING

During 1953 regular grazing lease inspection work was carried out in connection with applications for new and renewal leases. Inspections were also made in regard to requests for adjustments in carrying capacity and in connection with the periodic check of the use being made of grazing leases by lessees.

While under modern tillage practices some of the better soils in southern Alberta, formerly considered non-arable, are now being farmed fairly successfully, extreme caution is necessary in declaring such lands suitable for cultivation.

The grazing survey work carried out during 1951 and 1952 on grazing lands in the Peace River, Grande Prairie and Beaverlodge districts was extended in 1953. All grazing leases and grazing permits in 48 townships were inspected and grazing capacities established.

Prior to the survey, grazing capacities in the Peace River area were set on a fixed grazing rate of 60 acres per head, per 12-month grazing period.

The Range Improvement Assistance Policy commenced in 1952 by the department is becoming more widely known and appreciated. Eight applications were received and dealt with in 1953.

The average price for all grades of cattle, except fed calves, choice steers and choice heifers sold on the Calgary market during the period July 1st to December 31st, 1953, was 14.59¢ per pound, as compared to 19.04¢ per pound for the same period in 1952. Accordingly the rental and taxes per acre for the period from January 1st, 1954, to December 31st, 1954, on grazing leases and from April 1st, 1954, to March 31st, 1955, on grazing permits were reduced from 1953 as follows:

	<u>Rental and Taxes per acre</u>	
	<u>1953</u>	<u>1954</u>
One head to 24 acres _____	24 3/4¢	19¢
One head to 32 acres _____	18 1/2¢	14 1/4¢
One head to 40 acres _____	15¢	11 1/2¢
One head to 50 acres _____	12¢	9¢
One head to 60 acres _____	10¢	7 1/2¢

In January, 1954, the Bow West Special Area Number 4 was disbanded and Crown land located in this area is being transferred from the Department of Municipal Affairs to this department for administration. Consequently one hundred and sixty-seven grazing leases, twenty grazing permits, two community grazing leases and two community pastures, Lomond and Majorville, are being transferred to the jurisdiction of this department. The Lomond and Majorville Community Pastures are now consolidated under the Lomond Community Grazing Association and is to be administered by their own association directors.

In the special areas the rental rate is based on 8% of the forage value as compared to 12 1/2% outside of the special areas. This lower rate is to be maintained for the present for those lands formerly included in Bow West Special Area Number 4.

The grazing rentals on a head-tax basis for 1954 on provincial grazing reserves are as follows:

Horses _____	\$1.40 per head, per month
Cattle _____	1.20 per head, per month
Sheep on Vauxhall Reserve _____	.10 per head, per month

Where no caretaker or other facilities are provided by the department, grazing rental on a head-tax basis is as follows:

Horses _____	50¢ per head, per month
Cattle _____	40¢ per head, per month
Sheep _____	8¢ per head, per month

There were twenty-four departmental grazing reserves and two community pastures in operation in 1953 as well as four community grazing reserves in the process of formation.

The following is a summary of the Grazing Reserves and Community Pastures:

DEPARTMENTAL RESERVES (Permanent Caretakers)

Twin River Provincial Grazing Reserve

The Twin River Provincial Grazing Reserve comprises an area of 21,388 acres with 24 1/2 miles of fencing.

In 1953, thirty-five permits were issued to provide for the grazing of 1,326 cattle and 10 horses for a six month period. The caretaker was resident on the reserve during the entire grazing season.

Vauxhall Provincial Grazing Reserve

The area of the Vauxhall Provincial Grazing Reserve available for allotment in 1953 was approximately 125,000 acres with 66 3/4 miles of two, three and four wire fencing belonging to the department. The area formerly dealt with as a reserve and administered by a permanent caretaker was turned over to the Vauxhall Grazing Association during 1953. The association purchased departmental improvements, some departmental fencing and equipment and operated in the same manner as an association lease. The area of this reserve is being reduced from year to year by the expansion of the Bow River Irrigation Project.

The allotment system of disposition of land in the Vauxhall Grazing Reserve was made in 1953 on a similar basis as that followed in previous years.

Settlement is taking place on irrigated lands in the vicinity of the new town of Hays and the department is in the process of forming two small community pastures to provide for the grazing needs of these settlers.

RESERVES HANDLED BY ASSOCIATIONS (Association responsible for upkeep and care of the stock).Grazing Reserves under long term grazing leases by associations

<u>Name of Grazing Reserve</u>	<u>Area in Acres</u>
Big Four Lease Association _____	3,036
Blackfoot Grazing Association _____	24,613
B. T. Grazing Co-operative Ltd. _____	26,350
M. D. of Bow Island _____	24,365
Bluefield Grazing Association _____	11,602
Bowell West Grazing Association _____	8,171
Cresthill Farmers Community _____	14,271
Chauvin District _____	1,113
Comrey Grazing Association _____	29,953
Castle River Stock Association _____	6,159
Dunn Lake Cattle Association _____	3,595
Drowning Ford Grazing Association _____	33,069
Fir Grove Stock Association _____	3,750
Green Prairie Grazing Group _____	2,875
Lakes Grazing Association _____	1,906
Many Island Lake Grazing Association _____	17,647
North Group Cattle Association _____	8,651
Nemiscam Community Pasture _____	4,780
Pipeline Grazing Association _____	23,174
Poll Haven Community Pasture _____	10,462
Rocky Coulee Grazing Association _____	4,432
Ross Lake Community Pasture _____	4,473
Tide Lake Grazing Association _____	14,339
Tulliby Lake Stockman's Association _____	13,989

The Buffalo Park Grazing Association operating at Wainwright made use of grazing facilities on the military camp area at Wainwright and

secured grazing for 1,329 head of cattle for a six-month period. This arrangement for attaining grazing privileges in this area is in accordance with an agreement between the Department of National Defence, this department and the Buffalo Park Grazing Association. Rental paid is applied to the Department of National Defence's rental account with this department.

Long-term Grazing Leases

	<u>Number</u>	<u>Area in Acres</u>
Leases in force at April 1, 1953 _____	2,022	2,857,960.12
Leases issued during fiscal year _____	99	88,690.32
Leases renewed during fiscal year _____	119	79,762.39
Leases cancelled during fiscal year _____	37	44,975.14
Leases in force at March 31, 1954 _____	2,084	2,901,675.30

The problem of the wild horse situation in the Brazeau-Athabasca area was investigated by the assistant grazing appraiser in the summer of 1953. The matter of rounding up and disposing of these horses is pending.

Details pertaining to the revenue in connection with the administration of public lands may be found in the report of the accounting division of this department.

NOTE: The term "leases cancelled during fiscal year" includes leases which expired.

SCHOOL LANDS

There were 162 parcels of school lands listed for sale by public auction, of which 114 were sold. This is approximately two-thirds of the number of parcels listed for sale in the previous year, and in proportion, the number of parcels sold was less than in the previous year. The amount collected on new school land sales during the fiscal year was \$90,113.38.

The total revenue derived from school land sale accounts during the fiscal year was:

Principal _____	\$ 340,079.10
Interest _____	\$ 61,422.02
Total _____	\$ 401,501.12

The following is a summary of other school land business transacted:

<u>SCHOOL LAND SALES</u>	<u>Number</u>	<u>Area in Acres</u>
Sales in force at April 1, 1953 _____	1,705	262,672.03
Sales granted during fiscal year _____	191	28,759.37
Sales patented during fiscal year _____	84	11,823.64
Sales cancelled during fiscal year _____	6	901.26
Sales in force at March 31, 1954 _____	1,806	278,706.50

MISCELLANEOUS LEASES	<u>Number</u>	<u>Area in Acres</u>
Leases in force at April 1, 1953 _____	74 _____	3,263.83
Leases issued during fiscal year _____	8 _____	139.98
Leases cancelled during fiscal year _____	8 _____	257.11
Leases in force at March 31, 1954 _____	74 _____	3,146.70

LICENSES OF OCCUPATION

Licenses in force at April 1, 1953 _____	59 _____	529.78
Licenses issued during fiscal year _____	11 _____	36.97
Licenses cancelled during fiscal year _____	1 _____	8.32
Licenses in force at March 31, 1954 _____	69 _____	558.43

CULTIVATION LEASES

Leases in force at April 1, 1953 _____	1,193 _____	239,913.65
Leases issued during fiscal year _____	55 _____	10,777.06
Leases cancelled during fiscal year _____	72 _____	13,355.60
Leases in force at March 31, 1954 _____	1,176 _____	237,335.11

GRAZING PERMITS

Issued during fiscal year _____	936 _____	244,229.69
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CULTIVATION PERMITS

Issued during fiscal year _____	45 _____	1,705.00
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HAY PERMITS

Permits issued _____	105
(Total number of tons - 1,579)	

HAY SEIZURES

Seizure _____	Nil
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ASSIGNMENTS REGISTERED

Leases, Permits and Sales _____	118
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Statement of revenue pertaining to School Lands may be found in the report of the Accounting Division.

NOTE: The term "leases cancelled during fiscal year" includes leases which expired.

STAFF

Two new positions were established in the Lands Division during the past year. One in the crop share group and one in the homestead

group. These additional positions were required due to the increase in the number of crop share accounts, the number of homestead leases in effect and the number of lessees applying for title.

The reorganization of the staff and the establishment of group supervisors which took place in the previous year has proven helpful in forming a well-knit organization in the Lands Division.

I wish to express my appreciation for the co-operation and faithful service rendered by staff in the Lands Division during the past year.

On June 10th, 1953, Mr. Peter Cooke died suddenly of a heart attack. Mr. Cooke, who retired from the service in the fall of 1952 had returned to the service for the summer months. During his many years as a land inspector he became very well respected by the staff of the Department and by the farmers throughout all of Alberta.

1953-54

Forestry

REPORT OF THE DIRECTOR OF FORESTRY

E. S. HUESTIS

FIRE

During the year under review the Forest Service took suppressive action on 140 fires. Of these fires 52 (37.1%) originated in the settlement zone and 88 (62.9%) in the forest zone. A total of 334,101 acres were burned over, consisting of 196,825 acres of forested land and 137,276 acres of non-forested land.

Snow during the winter and rains during the spring were not well distributed. Moisture conditions were generally ample in the central and southern part, but there was a marked deficiency in the northern divisions, especially during the month of May when over one-half of the fires occurred.

Winter and spring patrols by field staff and the co-operation of registered trap-line owners held winter ground fires to a minimum.

Burning in settled areas was well controlled by the policy of inspection by forest officers and the issuance of permits only after the required precautions had been taken.

The lookout system augmented by four new towers, functioned efficiently as indicated by a considerable increase in the percentage of fires reported by towers. In areas of limited coverage other agencies were responsible for the majority of fires reported. The number of fires reported by different agencies is listed below:

Forest Officers	Lookout Towers	Public	Railwaymen	Aircraft
43	29	47	15	6
Percentage:				
31	20	34	11	4

A total of 58 prosecutions were instigated by the Forest Service under Part III of The Forests Act and 53 convictions were obtained.

Our supply of light fire-fighting tools was increased, and heavy equipment was supplemented by the purchase of light track-type tractors and road building equipment.

Very good co-operation in reporting fires was given by the general public, the Royal Canadian Air Force, commercial air lines and private pilots. The Royal Canadian Mounted Police gave us good co-operation in forest protection, especially in the enforcement of fire and game regulations.

The decrease from previous seasons in number of fires and reduction in burned area is a notable improvement. Although there was improvement in preventable fires in settled areas, campers were responsible for the largest number of fires. As there can be no direct control over careless campers the importance of educational programs stressing forest protection becomes increasingly evident.

A heavy program of construction and maintenance including towers, buildings, roads, trails and telephone lines was carried out during periods of low fire hazard.

TIMBER

There was a slight decrease in the number of active timber operations on vacant provincial lands and a decrease in the production of lumber and other forest products.

The export lumber market was fair and the local market was about the same as last year. There was very little change in prices of forest products on the export and local markets until early 1954 when lumber prices dropped slightly.

Two experimental marking operations are in progress in timber berths in the boreal spruce stands in the Slave Lake and Lac La Biche Divisions and on a small area of over-mature lodgepole pine in the Whitecourt Division. Conditions of the licenses stipulate alternate strip cutting in an effort to hasten regeneration on the cut-over areas.

At Strachan in the Rocky Mountain House Division, Dominion Forest Service personnel are continuing with their thinning experiments in lodgepole pine timber; and in the Slave Lake area, a thinning operation in mixed wood stands is under way. They are also completing spruce regeneration and growth study surveys in the Slave Lake Division.

FOREST SURVEYS

This is the third year of the agreement between the Provincial and Dominion Governments under the Canada Forestry Act whereby the Government of Canada agrees to pay 50% of the costs of the forest inventory. Progress during the year according to the different phases of the work is summarized below:

Project Class	Area Completed				%
	before	to March	in	at March	
	Agreement	31, 1953	1953-54	31, 1954	
	sq. miles	sq. miles	sq. miles	sq. miles	
Air photography					
(a) Small Scale	120,089	142,185		142,185	100
(b) Large Scale	22,938	80,907	22,641	103,548	94
Base Mapping	43,470	142,185		142,185	100
Field Surveys	23,333	81,407	20,000	101,407	71
Photo Interpretation	30,900	81,407	20,000	101,407	71
Forest Type Maps		81,407	20,000 *	101,407	71

* Forest type maps completed to draughting stage.

Tenders for large scale (1 to 15,840) aerial photographs for the remaining forested area north of Township 92, were called for early in the year. The successful tender was submitted by The Photographic Survey Corporation of Toronto. The required area to be photographed was set at 28,500 square miles. Of this amount the Corporation was able to complete 22,641 square miles. A point of interest is that photographic specifications called for modified infra-red film for all photography taken during the summer months when the deciduous leaves were green. The purpose was to obtain contrast between deciduous and coniferous growth as an aid to interpretation of forest conditions. It is believed this is the first modified infra-red film ever taken in Canada on a commercial basis. Key maps showing 1320' to 1 inch photography and forest inventory completed are appended.

Besides the above photography, the Department experimented with re-photographing areas of forest growth destroyed by fire. Essentially the method consists of photographing the burned over areas then transferring these to the forest cover maps of the area. Previously the location of burn has been mapped by ground traverse by forestry field staff. On large fires, doing the work on the ground is difficult and time consuming if reasonable accuracy is required. In order to maintain our forest inventory the burned areas and timber volumes lost must be deducted from the productive forested areas. During the fall, 221 square miles of photography at a scale of 1 to 15,840 were obtained for this purpose using the Department's own aircraft.

Photo interpretation and forest typing were completed during the winter months on 20,000 square miles in the north-western portion of the province. This part of the work is the key to the whole method of preparing a forest inventory as over 99% of the information is obtained from photographs. Foresters thoroughly trained in photo interpretation were engaged to do this phase of the work.

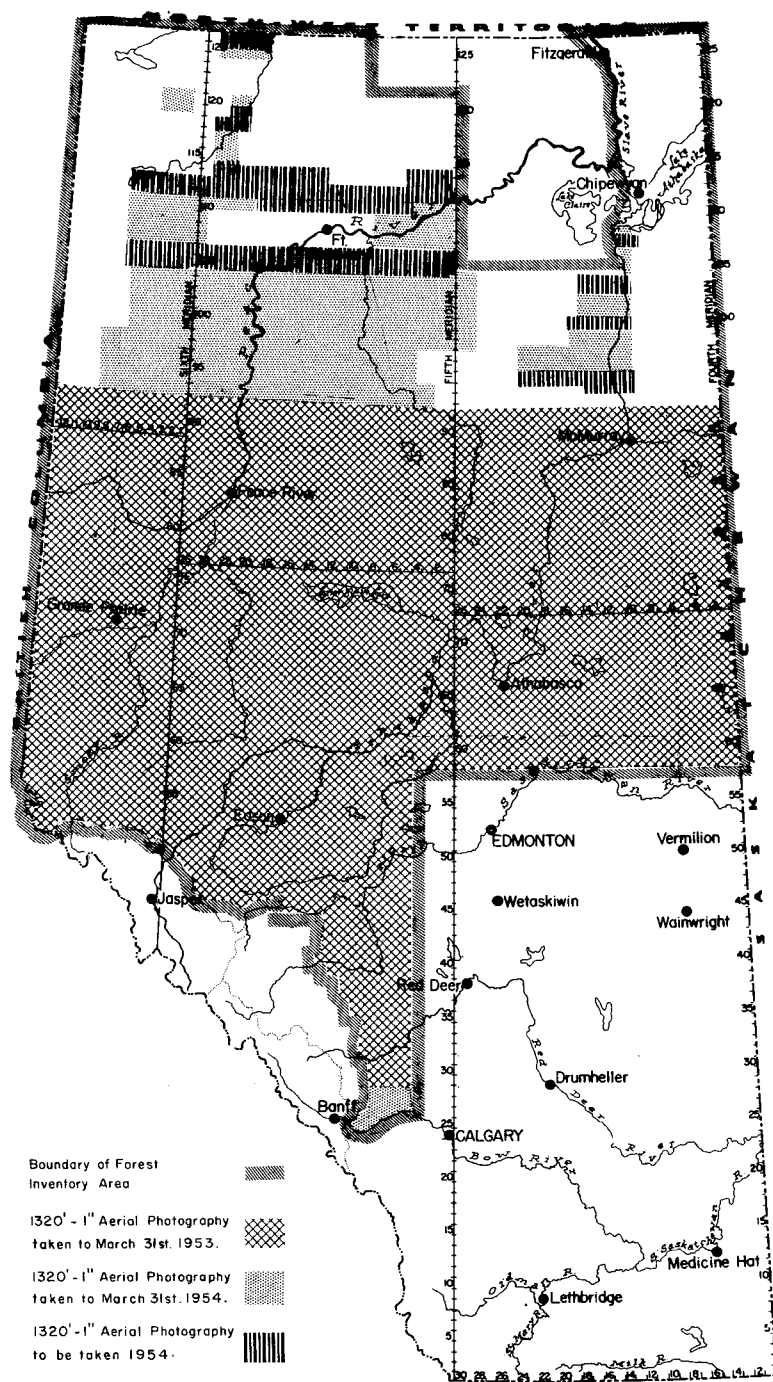
Summaries of area and volume have been compiled from forest cover maps on the 81,407 square miles completed south of Township 92 excluding National Parks, Indian Reserves and the area under the jurisdiction of the Eastern Rockies Forest Conservation Board.

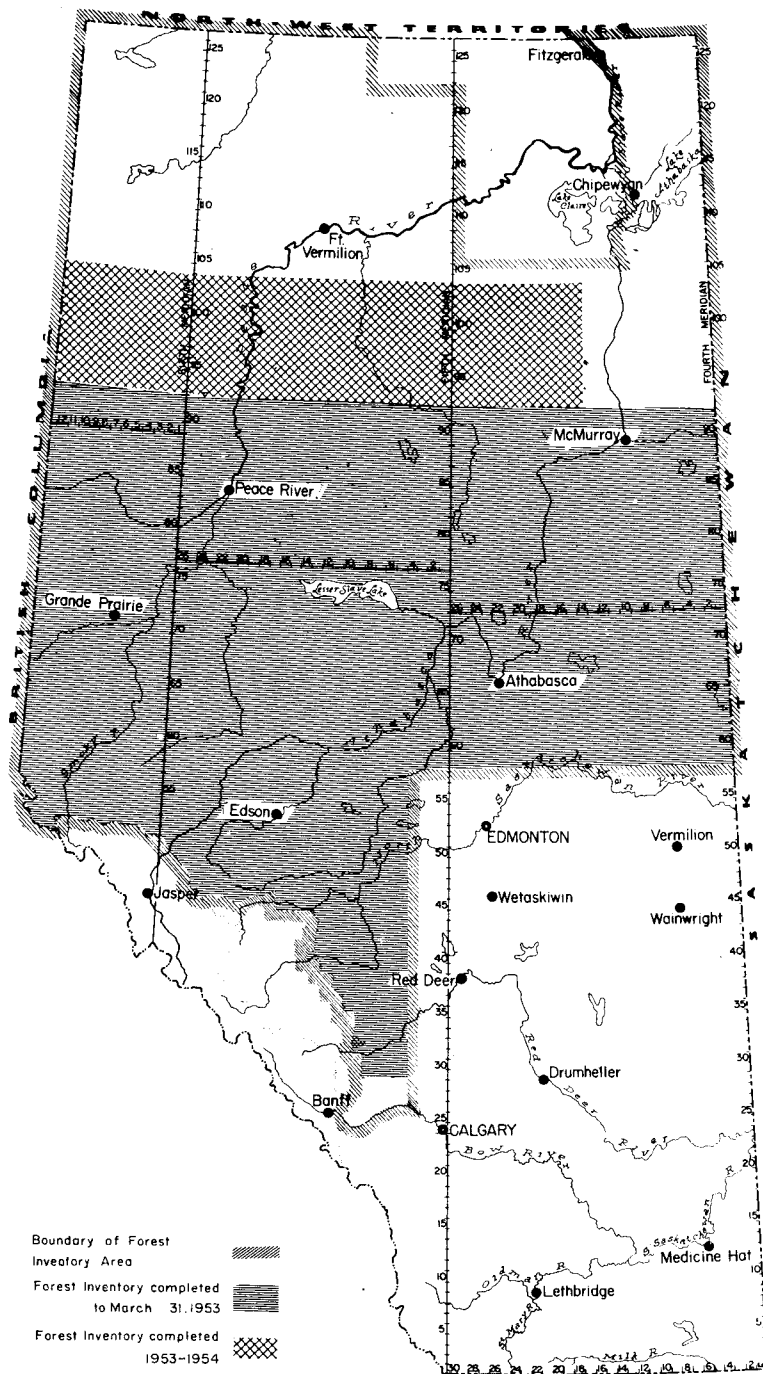
In addition to the above work on the provincial inventory there has been a detailed inventory completed on the Cypress Hills Provincial Park amounting to 80 square miles.

In co-operation with the Lands Division and the Soils Surveys of the Alberta Research Council, a start has been made in classifying forest and farm land.

RADIO

The Radio Branch has been re-organized to some extent during the year under review. By placing technicians in some of the Forestry Divisions the load on the Edmonton technical staff has been somewhat reduced. It is hoped that in the near future sufficient personnel will become available to permit placing in each Division a technician who will be responsible for all maintenance in that Division. This will leave the





Edmonton staff available to carry out new installation and development work with the expectation of providing a more efficient operation of the Branch.

Surveys with regard to the use of V.H.F. frequency modulated equipment in the Northern Alberta Forest District are being continued; expansion of the network in the Eastern Rockies Forest Conservation area has been ordered, and is in the planning stages.

A major project has been planned and is in the early construction stages, namely the installation of radio control for our remote-operated medium-frequency transmitter and receivers at Edmonton. This installation will eliminate the necessity for any leased lines for control purposes and will provide two control points remotely situated from the equipment and from each other. It is expected that this project will be completed and in operation early in the coming fiscal year.

Equipment was installed in seven new towers during the year. Because of high local noise levels, remote operation equipment was installed at Divisional Headquarters in Edson and Grande Prairie.

RABIES CONTROL

Last year we reported the start and spread of a rabies epidemic from the northern part of the Province southward throughout the Province. In view of the fact that the spread was through wild life, it was decided that the Forest Service was best equipped to organize trappers to destroy animals which might infect domestic stock or humans. A double trapline was set up five miles apart with two men every thirty miles, this trapline completely surrounding the settled area of the Province. The total length of the trapline was five thousand miles. The organization required the selection of the very best trappers, the provision of traps, snares, poison and poison set material, the supervision of the trappers' activities and the submission of monthly reports by trappers to determine the number of animals taken. During the one year, the following animals were killed:

Foxes	- 50,000	Coyotes	- 35,000	Wolves	- 4,200
Lynx	- 7,500	Bear	- 1,850	Skunk	- 1,850
Cougar	- 64				

GENERAL

There was close co-ordination with the Dominion Forest Service, Dominion Entomological and Pathological Branches and the Vancouver Forest Products Laboratory.

The Forestry Training School conducted its third year of instruction at the Dominion Government Kananaskis Forest Experimental Station. To date 60 forest officers have attended the school.

Progressive implementation of the re-organization plans necessitated a number of re-classifications and transfers as well as the hiring of additional staff. This re-organization is in line with the recommendations in the Stevenson-Kellogg report which was mentioned in our last annual report.

During the year the Forest Service lost two men through retirement.

Mr. J. L. Janssen, Senior Superintendent of the Forest Protection Branch was due to retire in January of 1954, but we were able to obtain a three month extension of his services to the end of the fiscal year in order that he might prepare the program of forest protection for the coming year and train his successor, Mr. T. R. Hammer in this work.

Mr. Janssen rose from the ranks of assistant ranger up the line to Superintendent. With a background of this kind, his knowledge and direction from head office were invaluable. Mr. Janssen was a tireless worker whose many and valuable contributions will be remembered for years to come.

Forest Officer William Smith of the Edson Division of the Forest Protection Branch retired in November of 1953. Mr. Smith had many years of service with the department, having been formerly with the Dominion Service, coming to the Province with the transfer of the Natural Resources in 1930. He spent almost his entire career in the Edson Division and, in addition to his forest protection work, was particularly interested in wolf control.

FIRE SUPPRESSION

During the fire season of 1953 a total of 140 fires were dealt with as shown below in classes:

- 33 Class "A" or small fires (less than 1/4 of an acre)
- 34 Class "B" fires (over 1/2 acres up to 10 acres)
- 37 Class "C" fires (over 10 acres up to 500 acres)
- 36 Class "D" fires (over 500 acres)

RAILWAY FIRE LOSSES, CALENDAR YEAR 1953

CAUSES AND NUMBER OF FIRES:	
Railway Causes -	Number
Locomotives	15
Employees	1
Total	16
NUMBER OF ACRES BURNED:	
	Acres
Slashing or old	—
Timber land	1,783
Young growth	6,898
Non-forested	141
Total	8,822
LOSS:	
	\$
Timber	54,680.00
Young Growth	69,432.50
Forest Products	—
Other Property	—
Total	\$124,112.50

COMPARISON OF FIRE CAUSES BY PERCENTAGES
FOR THE YEARS 1942 TO 1953 INCLUSIVE

CAUSE	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953
Campers	31.5	26.8	24.0	18.7	14.9	15.5	29.9	21.4	23.8	16.7	25.0	40.0
Smokers	3.3	7.5	6.5	8.8	5.5	6.6	12.5	9.6	10.1	23.8	9.4	10.0
Settlers	13.9	12.4	14.5	15.1	10.5	7.4	10.9	23.6	14.9	19.0	12.5	10.7
Railways	11.1	23.0	16.0	12.0	21.1	32.8	15.2	8.9	10.9	10.7	17.7	11.4
Lightning	.9	.4	3.4	6.0	4.4	4.1	3.8	6.8	8.9	8.3	3.1	5.0
Industrial Operations	3.6	1.9	3.6	3.5	9.5	4.9	8.7	3.5	4.0	6.0	7.8	2.9
Incendiary	6.9	5.7	6.8	6.0	2.9	4.1	2.7	7.3	8.0	8.3	12.0	12.9
Public Works	.5	.4	—	.4	—	—	—	1.6	1.2	—	—	0.7
Unclassified	10.2	7.5	6.5	13.4	6.9	.8	.6	3.9	6.9	6.0	4.2	2.2
Unknown	18.1	14.4	18.7	16.1	24.3	23.8	15.7	13.4	11.3	1.2	8.3	4.2

COMPARISON OF FIRE LOSSES AND CAUSES
BY PERCENTAGES FOR THE YEAR 1953

	Number of Fires %	Merchantable Timber Losses Acres %	Total Acreage Burned %
Campers	40.0	84.7	74.1
Smokers	10.0	0.2	3.4
Settlers	10.7	1.5	6.8
Railways	11.4	2.1	2.6
Lightning	5.0	0.9	0.7
Industrial Operations	2.9	0.1	0.1
Incendiary	12.9	1.1	7.0
Public Works	0.7	Nil	Nil
Unclassified	2.2	9.4	5.0
Unknown	4.2	Nil	0.3

SUMMARY SHOWING TOTAL NUMBER OF FIRES AND BURNT OVER
AREAS FROM 1942 to 1953 INCLUSIVE

YEAR	TOTAL FIRES No.	NON- FORESTED Acres	FORESTED Acres	TOTAL AREA Acres	SUPPRESSION COSTS \$
1942	215	182,208	143,608	325,816	40,546
1943	265	409,504	105,646	515,149	22,287
1944	325	273,186	449,472	722,658	88,086
1945	284	128,264	88,473	216,737	64,002
1946	275	179,731	92,552	272,284	54,129
1947	122	46,895	33,166	80,061	19,876
1948	184	195,491	107,726	293,217	90,904
1949	314	552,185	908,862	1,461,047	248,635
1950	248	233,509	472,178	705,687	336,304
1951	84	13,303	10,565	23,868	25,092
1952	192	184,905	299,424	484,329	70,443
1953	140	137,275	196,826	334,101	188,202
Totals	2,648	2,536,456	2,908,498	5,434,953	1,248,506

ANNUAL STATEMENT OF FIRES BY CAUSES, MONTHLY DISTRIBUTION, ETC.

Within & Without Forest Reserves - Calendar Year 1953																								
CAUSE	NUMBER						Damage \$	Area Acres	MONTHLY DISTRIBUTION												Fires Inside Forest Reserve		Fires Outside Forest Reserves	
	A	B	C	D	Total	P. C.			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	No.	Area Acres	No.	Area Acres
Camp-fires	18	14	9	15	56	40	1,497,260	247,535		2	2	7	20	3	6	7	3	4	2		1	4	55	247,531
Smokers	4	1	7	2	14	10	75,041	10,750					6	1	2			4	1		3	1	11	10,749
Settlers	1	1	6	7	15	11	36,527	22,784		1			11	3									15	22,784
Railways	2	8	5	1	16	11	124,113	8,821				2	11	2	1							16	8,821	
Lightning	3	1	2	1	7	5	22,032	2,651					1		2	2	2				1		6	2,651
Industrial Operations	2	1	1		4	3	983	212			1	1		1					1			4	212	
Incendiary		3	7	8	18	13	87,785	23,568			2	2	13	1	1			1			1	18	23,568	
Public Works	1				1	1												1						
Unclassified	2			1	3	2	79,638	16,859					1				1		1			3	16,859	
Unknown		5		1	6	4	4,658	921					3	1		1		1				6	921	
TOTALS	33	34	37	36	140		1,928,037	334,101		2	4	12	66	12	12	10	6	11	4	1	6	5	134	334,096
Per cent.	24	24	26	26		100				1	3	9	47	9	9	7	4	8	3	1	4		96	

ANNUAL SUMMARY OF FOREST FIRE LOSSES
FIRES WITHIN FOREST RESERVES

33

CAUSE	NUMBER OF FIRES					LANDS AFFECTED								LOSS										SUPPRESSION COSTS		
						OWNERSHIP		AREA	CONDITION				TIMBER (MERCHANTABLE AND CUT-OVER)						Loss of Timber	Loss of Young Growth	Loss of Other Property	Total Loss	Ranger Service	Other Expenditure	Total	
	CLASS				Public	Private	Total	Merchantable Timber	Cut-over Timber	Young Growth	Not Forested	SALVABLE			UNSALVABLE											
	A	B	C	D								Total	Acres	Acres	Acres	Acres	Acres	Acres								Acres
							Acres	Acres	Acres	Acres	Acres	Acres	Acres	M. Ft. B. M.	Cords	\$	M. Ft. B. M.	Cords	\$	\$	\$	\$	\$	\$	\$	\$
Campers	—	1	—	—	1	—	4	4	1	—	3	—	—	—	—	—	—	2	2	2	30	—	32	—	32	32
Smokers	2	1	—	—	3	1	—	1	—	—	1	—	—	—	—	—	—	—	—	8	—	8	4	4	8	
Settlers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Railways	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Lightning	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Industrial Operations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Incendiary	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Public Works	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Unclassified	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63	270	333	
Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TOTALS	4	2	—	—	6	1	4	5	1	—	4	—	—	—	—	—	2	2	2	38	—	40	67	306	373	

FIRES OUTSIDE FOREST RESERVES

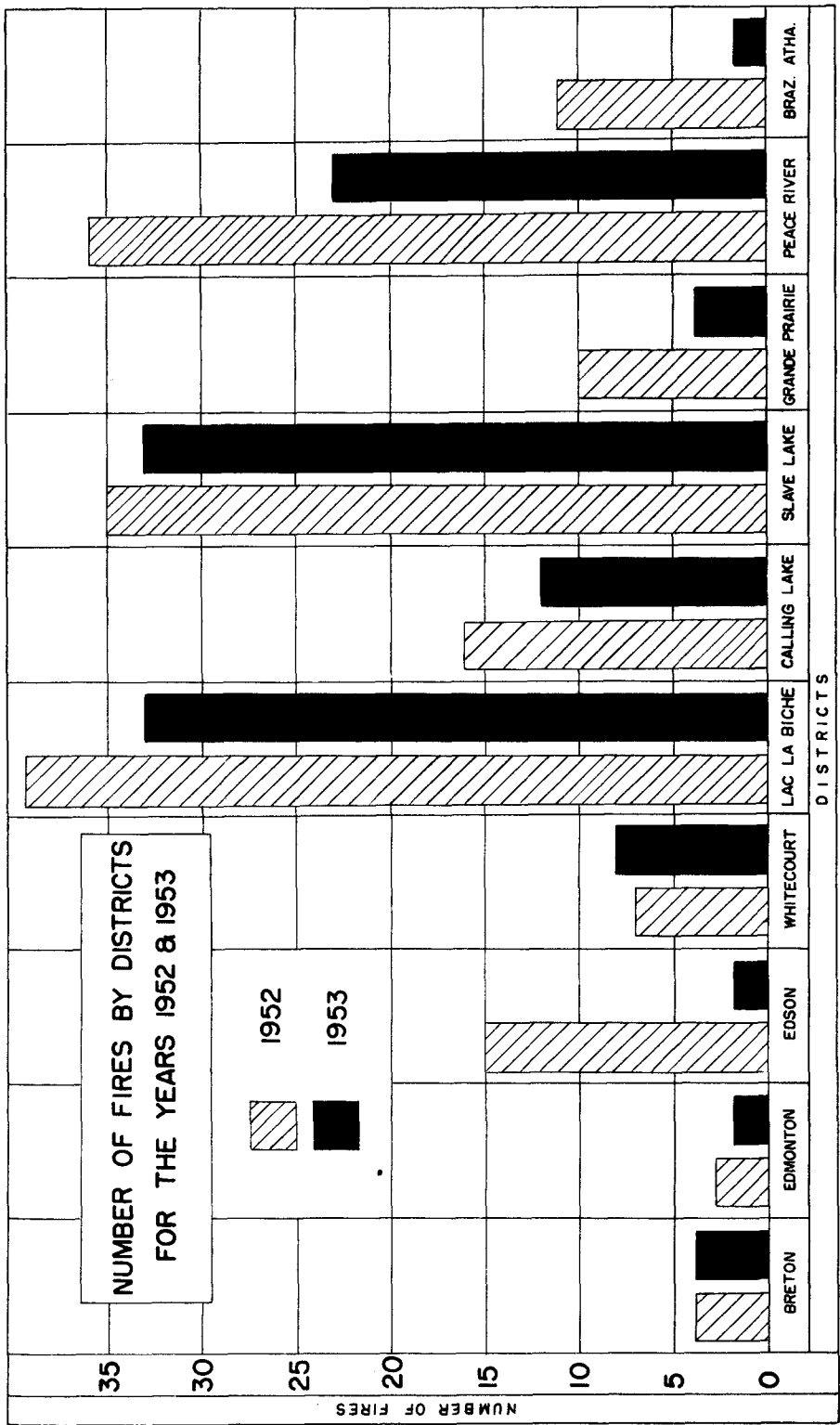
Campers	18	13	9	15	55	247,408	123	247,531	68,960	14	69,877	108,680	—	—	—	118,964	552,919	1,126,186	1,126,186	371,042	—	1,497,228	4,191	86,861	91,052
Smokers	2	—	7	2	11	10,230	519	10,749	140	232	6,963	3,414	464	—	75	—	6,660	2,030	2,105	72,928	—	75,033	646	27,644	28,290
Settlers	1	1	6	7	15	17,600	5,184	22,784	1,222	50	6,318	15,194	10	110	15	40	21,320	15,850	15,865	19,762	900	36,527	367	6,936	7,303
Railways	2	8	5	1	16	8,818	3	8,821	1,683	100	6,897	141	9	—	14	8,000	9,040	54,666	54,680	69,433	—	124,113	429	13,089	13,518
Lightning	2	1	2	1	6	2,651	—	2,651	720	—	1,531	400	2,883	—	138	3,007	—	18,067	18,205	3,827	—	22,032	515	16,060	16,575
Industrial Operations	2	1	1	—	4	212	—	212	50	2	160	—	—	—	—	7	317	358	358	625	—	983	102	496	598
Incendiary	—	—	7	8	18	20,001	3,567	23,568	895	1,280	17,288	4,105	1	623	5	6,448	4,250	41,950	41,955	45,830	—	87,785	624	18,624	19,248
Public Works	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unclassified	2	—	—	1	3	16,859	—	16,859	7,655	—	3,875	5,329	—	—	—	4,077	67,207	60,263	60,263	19,375	—	79,638	381	9,728	10,109
Unknown	—	5	—	1	6	337	584	921	5	—	903	13	—	—	—	1	—	150	150	4,508	—	4,658	173	963	1,136
TOTALS	29	32	37	36	134	324,116	9,980	334,096	81,330	1,678	113,812	137,276	3,367	733	247	140,544	661,713	1,319,520	1,319,767	607,330	900	1,927,997	7,428	180,401	187,829

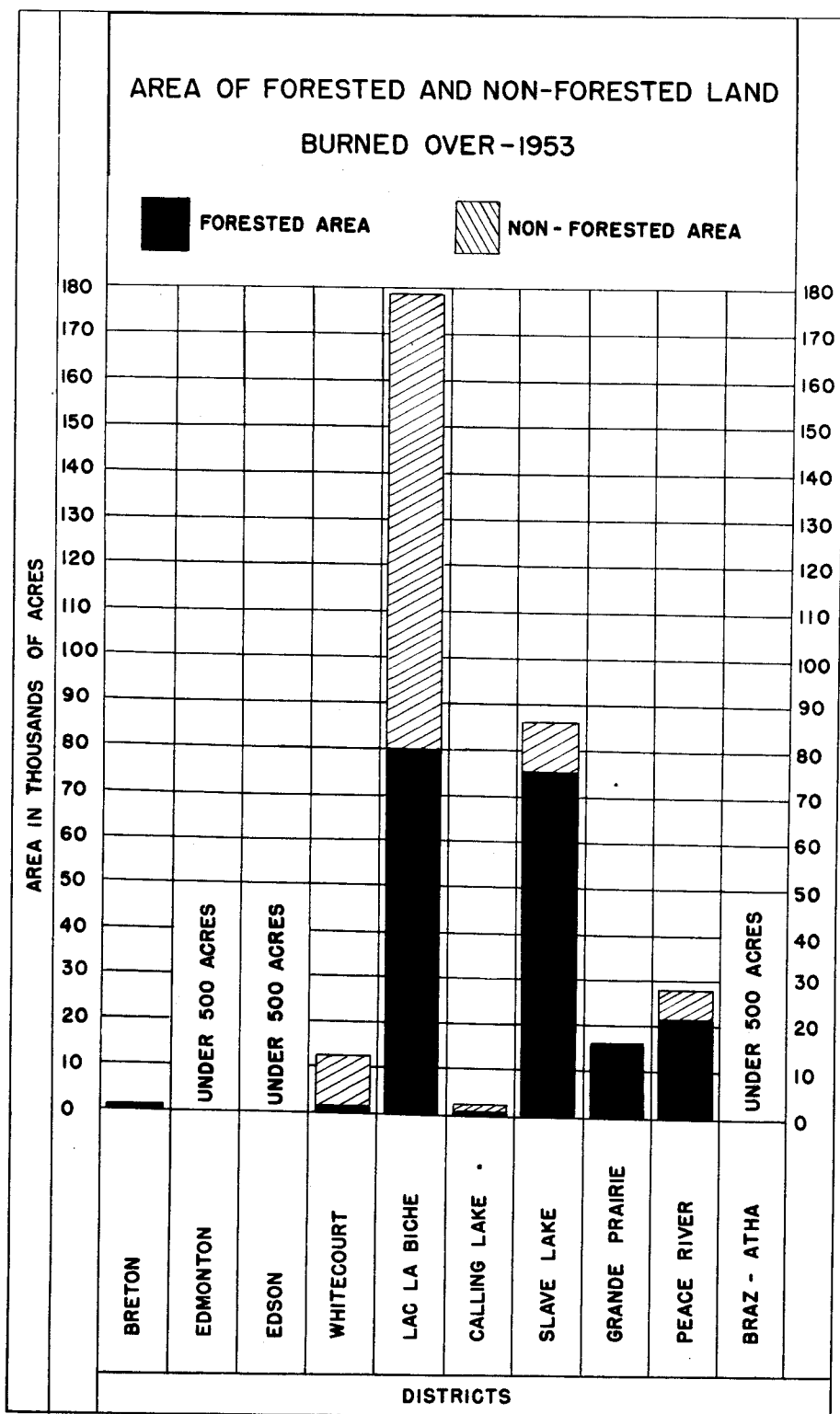
FIRES WITHIN AND WITHOUT FOREST RESERVES

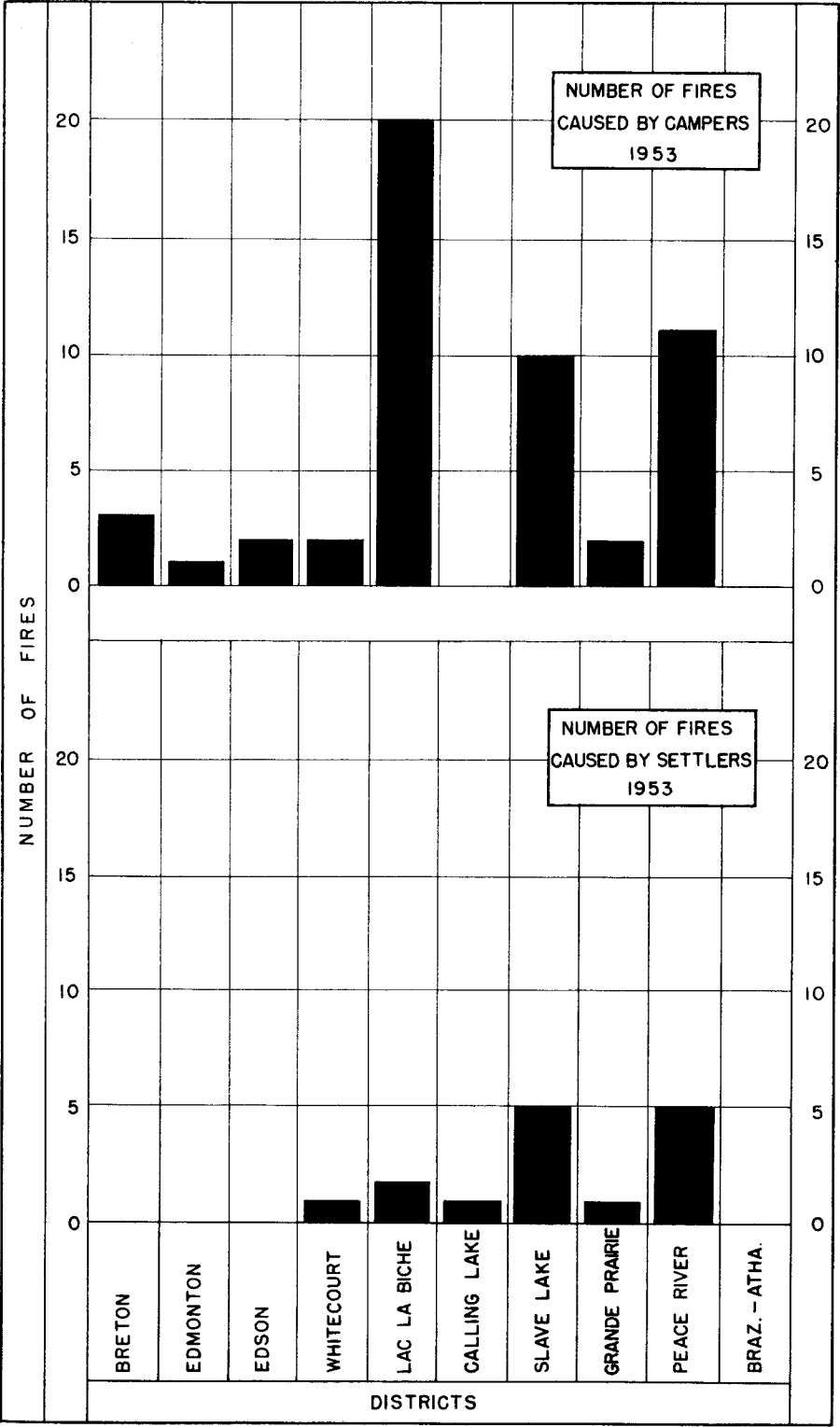
Campers	18	14	9	15	56	247,408	127	247,535	68,961	14	69,880	108,680	—	—	—	118,964	552,921	1,126,188	1,126,188	371,072	—	1,497,260	4,191	86,893	91,084
Smokers	4	1	7	2	14	10,231	519	10,750	140	232	6,964	3,414	464	—	75	—	6,660	2,030	2,105	72,936	—	75,041	650	27,648	28,298
Settlers	1	1	6	7	15	17,600	5,184	22,784	1,222	50	6,318	15,194	10	110	15	40	21,320	15,850	15,865	19,762	900	36,527	367	6,936	7,303
Railways	2	8	5	1	16	8,818	3	8,821	1,683	100	6,897	141	9	—	14	8,000	9,040	54,666	54,680	69,433	—	124,113	429	13,089	13,518
Lightning	3	1	2	1	7	2,651	—	2,651	720	—	1,531	400	2,883	—	138	3,007	—	18,067	18,205	3,827	—	22,032	515	16,060	16,575
Industrial Operations	2	1	1	—	4	212	—	212	50	2	160	—	—	—	—	7	317	358	358	625	—	983	102	496	598
Incendiary	—	—	7	8	18	20,001	3,567	23,568	895	1,280	17,288	4,105	1	623	5	6,448	4,250	41,950	41,955	45,830	—	87,785	624	18,624	19,248
Public Works	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unclassified	2	—	—	1	3	16,859	—	16,859	7,655	—	3,875	5,329	—	—	—	4,077	67,207	60,263	60,263	19,375	—	79,638	381	9,728	10,109
Unknown	—	5	—	1	6	337	584	921	5	—	903	13	—	—	—	—	—	150	150	4,508	—	4,658	173	963	1,136
TOTALS	33	34	37	36	140	324,117	9,984	334,101	81,331	1,678	113,816	137,276	3,367	733	247	140,544	661,715	1,319,522	1,319,769	607,368	900	1,928,037	7,495	180,707	188,202

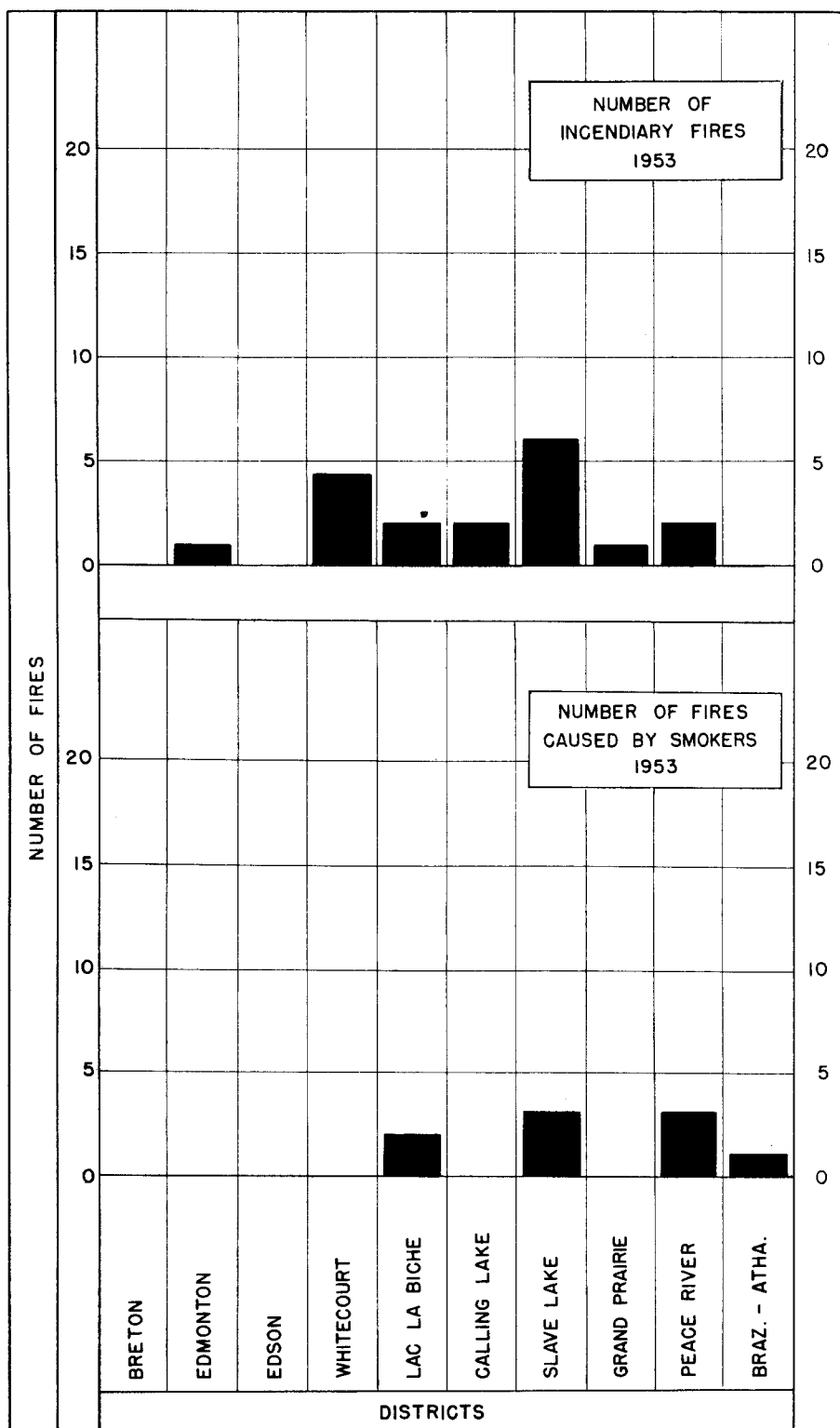
SUMMARY BY DIVISIONS

N. A. F. D.	20	31	36	36	123	324,116	9,726	333,842	81,330	1,678	113,809	137,025	3,367	733	247	140,544	661,712	1,319,493	1,319,740	607,323	900	1,927,963	7,365	180,393	187,758
Outside Reserve	9	1	1	—	11	—	254	254	—	—	3	251	—	—	—	—	1	27	27	8	—	35	63	8	71
Clearwater	1	1	—	—	2	1	—	1	—	—	1	—	—	—	—	—	—	—	—	7	—	7	67	270	337
Bow River	3	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4
Crowsnest	—	1	—	—	1	—	4	4	1	—	3	—	—	—	—	—	2	2	2	30	—	32	—	32	32
TOTALS	33	34	37	36	140	324,117	9,984	334,101	81,331	1,678	113,816	137,276	3,367	733	247	140,544	661,715	1,319,522	1,319,769	607,368	900	1,928,037	7,495	180,707	188,202









TIMBER CUT UNDER PERMIT ALBERTA FOREST RESERVES

FISCAL YEAR 1953 - 54

	Bow River	Crowsnest	Clearwater	Total
Number of Permits _____	43	66	27	136
Fuelwood (cords) _____	14	51	37	102
Lumber (F. B. M.) _____	—	35,000	181,802	216,802
Poles and Piling (lineal feet) _____	—	66,750	690	67,440
Pulpwood (cords) _____	—	50	—	50
Round timbers (lineal feet) _____	517,435	86,589	363,081	967,105

TIMBER OPERATIONS ON ALBERTA FOREST RESERVES

FISCAL YEAR 1953 - 54

	Bow River	Crowsnest	Clearwater	Total
Number of Active Operations _____	26	16	45	87
Fuelwood (cords) _____	—	498	—	498
Lath (pieces) _____	—	52,725	856,900	909,625
Lumber (F. B. M.) _____	8,807,760	19,836,695	17,741,582	46,386,037
Poles & Piling (lineal feet) _____	—	12,381	—	12,381
Pulpwood (cords) _____	—	—	3,425	3,425
Railway Ties (pieces) _____	—	—	2,500	2,500
Round Timbers (lineal feet) _____	1,394,462	308,612	283,337	1,986,411

TIMBER OPERATIONS ON LANDS OUTSIDE OF FOREST RESERVES

FISCAL YEAR 1953 - 54

	Timber Berths and Special Permits
Number of Active Operations _____	854
Lath (pieces) _____	1,221,539
Lumber (F. B. M.) _____	309,677,645
Mine Ties (pieces) _____	40,093
Poles and Piling (lineal feet) _____	1,157,086
Pulpwood (cords) _____	578
Railway Ties (pieces) _____	1,286,629
Round Timbers (lineal feet) _____	359,918
Slabs (cords) _____	534
Shingles (pieces) _____	120,690
Tie Plugs (cords) _____	36

SETTLERS' TIMBER PERMITS

Number of Permits _____	2,798
Fuelwood (cords) _____	5,191
Lumber (F. B. M.) _____	17,264,848
Pulpwood (cords) _____	14,815
Round Timber for Mines, Fencing, Corrals, Building Logs, etc. (lineal feet) _____	3,936,552
Shingles (pieces) _____	32,000
Tie Plugs (cords) _____	300
Timber Seizures (number) _____	235

SUMMARY OF TIMBER OPERATIONS ON PUBLIC LANDS AND ALBERTA FOREST RESERVES
FISCAL YEAR 1953 - 54

	PUBLIC LANDS		FOREST RESERVES			Total
	Timber Berths and Special Permits	Other Permits	Timber Berths and Special Permits	Other Permits		
Number of Active Operations	854	2,798	87	136	3,875	
Fuelwood (cords)	—	5,191	498	102	5,791	
Lath (pieces)	1,221,539	—	909,625	—	2,131,164	
Lumber (F. B. M.)	309,677,645	17,264,848	46,386,037	216,802	373,545,332	
Mine Ties (pieces)	40,093	—	—	—	40,093	
Poles and Piling (lineal feet)	1,157,086	—	12,381	67,440	1,236,907	
Pulpwood (cords)	578	14,815	3,425	50	18,868	
Railway Ties (pieces)	1,286,629	—	2,500	—	1,289,129	
Round Timbers (lineal feet)	359,918	3,936,552	1,986,411	967,105	7,249,986	
Slabs (cords)	534	—	—	—	534	
Shingles (pieces)	120,690	32,000	—	—	152,690	
Tie Plugs (cords)	36	300	—	—	336	
Timber Seizures (number)	—	235	—	—	235	

IMPROVEMENTS - STATEMENT OF MAN-DAYS WORKED - FISCAL YEAR 1953-54

NEW CONSTRUCTION PROJECTS

	Houses	Garages and Sheds	Fences	Lookout Sites	Water Supply Systems	Barns and Stables	Telephone Lines	Corrals	Bridges	Grounds	Trails	Cottages and Cabins	Tourist Stoves	Access Roads	Radio	Misc.
Crownest	318.5	71.5	4.5	2.5	11	—	5	—	108.5	9	31	—	15	30.5	—	63
Bow River	619	181.5	—	94.5	—	—	82	—	—	31	13.5	40.5	65	66	12	63
Clearwater	61.5	4.5	—	698.5	2.5	—	—	—	9	—	9.5	169	—	126.5	—	7
N.A.F.D.	—	84	62.5	—	—	—	117	—	—	—	74	318.5	—	414.5	—	12.5
TOTALS	999	341.5	67	795.5	13.5	—	204	—	117.5	40	128	528	80	637.5	12	145.5

MAINTENANCE PROJECTS

Crownest	111.5	9.5	61	—	3	1.5	182.5	11.5	14	17	71.5	5	1	137.5	.5	47
Bow River	155.5	21	204	1	—	43.5	334	—	—	95.5	76	85.5	4	181.5	—	260
Clearwater	35.5	6.5	118	2	1.5	8	162	7	—	124.5	132	32	—	64	—	25.5
N.A.F.D.	52.5	104.5	233	215	14	15	495	4	—	120	452.5	402	—	526	—	126.5
TOTALS	355	141.5	616	218	18.5	68	1173.5	22.5	14	357	732	524.5	5	909	.5	459

MODE OF TRANSPORTATION AND MILEAGE TRAVELLED BY EMPLOYEES
OF THE ALBERTA FOREST SERVICE

FISCAL YEAR 1953 - 54

DIVISIONS	Foot	Saddle	Team	Speeder	Auto	Canoe	Rowboat	Motorboat	Plane	Railway	Bus	Others	Totals
N. A. F. D.	34,921	18,410	25,345	8,935	772,231	1,499	242	9,454	11,727	25,713	792	9,770	919,039
Crowsnest	1,602	3,088	—	—	58,730	—	—	—	—	2,428	842	383	67,073
Bow River	1,945	8,711	370	—	139,680	—	—	140	—	470	456	957	152,729
Clearwater	2,300	6,255	30	—	70,509	—	—	—	—	464	430	3,029	83,634
Radio	350	570	—	617	72,500	—	—	—	2,000	5,900	—	—	81,320
TOTALS	41,118	37,034	25,745	9,552	1,113,650	1,499	242	9,594	13,727	34,975	2,520	14,139	1,303,795

SUMMARY OF AREA AND VOLUME
FOREST COVER MAPS

	Area Estimate	
	Sq. Miles	Percent
Productive Forest Lands	36,305.36	45
Potentially Productive Forest Lands:		
Old burn and brushland	13,726.95 (17%)	
Recent burn	9,197.43 (11%)	
Clear cut	53.73 (-)	
Total potentially productive forest land:	22,978.11	28
Non-productive Lands:		
(Water, marsh, treed muskeg, clearing, barren, etc.)	22,124.15	27
Total	81,407.62	100
Volume Estimate		
Saw and Tie Material: F. B. M.		
White Spruce	6,589,000,000	
Pine	11,071,000,000	
Total	17,660,000,000	
Young Growth: Cords		
White Spruce	89,875,000	
Pine	61,459,000	
Black Spruce	12,416,000	
Balsam Fir	11,511,000	
Total	175,261,000	
Deciduous Material: Cu. Ft.	17,348,434,000	

SUMMARY OF THE YEAR'S OPERATIONS, 1953 - 54
LOOKOUT STATIONS - 60 WATT AND 100 WATT

	Engine hrs.	Time min.	Gas gals.	Oil qts.	Messages	Words
Alder Flats	416	00	102 1/2	8 1/2	209	3,309
Athabasca	358	05	97 1/4	5 1/2	696	10,245
Brazeau	374	40	88 1/2	10 1/2	280	4,666
Carrot Creek	318	42	85	2	540	9,910
Economy Creek	268	15	58	7 1/4	170	3,076
Goose Mountain	384	30	99	15	315	5,711
Heart Lake	532	27	112 1/2	11 1/4	419	8,497
Lovett	359	20	81 1/2	7 3/4	776	12,348
Mayberne	356	52	79 1/2	13	304	5,405
Nose Mountain	156	40	39	4 1/2	551	12,482
Pass Creek					45	462
Pelican Mountain	114	27	25	3	132	1,785
Puskwaskau	97	50	32 1/2	3	245	4,525
Round Hill	415	40	110	15 1/4	346	4,166
Snuff Mountain	151	49	48	6	268	3,376
Swan Dive	306	50	72 3/4	7	279	3,667
Sweathouse	150	35	38 2/3	5	99	1,505
Whitecourt	641	27	111	24	1,095	18,035
White Mountain					106	2,420
TOTAL	5,404	09	1,280 2/3	147 3/4	6,875	115,590

HEADQUARTER STATIONS

Calgary	4,479	102,761
Edmonton	11,742	259,001
Edson	1,885	34,958
Grande Prairie	1,783	40,324
Lac La Biche	2,606	59,919
Peace River	1,614	41,512
Rocky Mountain House	647	13,617
Slave Lake	1,027	21,457
Whitecourt	494	21,272
TOTAL	26,277	582,821
GRAND TOTAL	33,152	698,411

EASTERN ROCKIES FOREST RESERVES

Report of Senior Superintendent

FOREST PROTECTION

(a) Fire Season

Heavy snow fell during the winter of 1952-53 in the mountains of the East Slope Reserves.

The weather in the spring of 1953 was generally cool with frequent rains. The snow did not disappear from sheltered places until late in May, and no spring fire hazard developed.

Intermittent rains occurred throughout the reserve during the summer, with particularly heavy rainfall in June, and the fire situation in general was very satisfactory.

In contrast, the fall season presented considerable fire hazard particularly during the hunting season, due to the absence of moisture accompanied by warm winds. However, there was no increase of fire occurrence during this period, and the fire season was terminated by a general snowfall near the end of November.

(b) Fire Prevention

The fire prevention program was promoted by use of posters, and through the co-operation of the radio and press. The Canadian Forestry Association again participated in the program during 1953.

(c) Fire Detection

The lookout system continues to be the principal medium of fire detection. The number of lookout stations will have been increased from ten to sixteen at the conclusion of the construction program.

The co-operation of the public in the prevention of fire should not be overlooked as they have been found, on the whole, to be careful in the use of fire while travelling on the reserve. When fires are detected by travellers they are quick to report same to the ranger.

(d) Fire Suppression

A total of seventeen fires occurred during 1953, six of which were inside of the reserve boundary. Thirteen of the fires were spot fires, and loss of timber and young growth amounted to \$74.00.

Area burned over was 259 acres, 250 acres of which was grassland in the Porcupine Hills area outside of the Forest Reserve. Cost of suppression was \$201.62, including ranger labour.

Causes of fires were as follows:

Campers	5
Smokers	5
Lightning	3
Public Works	1
Unclassified	2
Unknown	1

(e) Personnel

Mr. J. P. Alexander, Senior Superintendent of the East Slope Forest Reserves, and Liaison Officer between the Eastern Rockies Forest Conservation Board and the Alberta Forest Service, retired from the service on August 31st, 1953.

Mr. L. R. West, Superintendent of the Bow River Forest Reserve, was appointed Acting Senior Superintendent, a position he held until his death on October 20th, 1953.

Mr. S. R. Hughes, Assistant Superintendent on the Bow River Forest, was promoted to the position of Superintendent on that reserve, succeeding the late Mr. West.

The vacancy created by the promotion of Mr. S. R. Hughes was filled by Mr. G. A. Longworth.

Forest Ranger Joe Kovach, who was employed by the Department for approximately twenty-two years, resigned from the service on September 30th, 1953.

The strength of the field staff remained the same, with some transfers and resignations taking place.

(f) Fire Fighting Equipment

No new fire fighting equipment was acquired.

ADMINISTRATION

(a) Timber

There was a further increase in timber berth activity during the past year. Eighty-one berths were active as at March 31st, 1954, which is an increase of thirteen over the previous year.

Thirteen Special Timber Permits and one hundred and twenty-three Settler's Permits were issued.

(b) Grazing

Number of permits issued	284
Cattle	22,393 head
Horses	288 head
Sheep	1,150 head

Management plans have been completed for most of the grazing divisions on the Crowsnest and Bow River Forests. Forage conditions were good due to intermittent rains during the summer. Cattle when removed from the reserve at the end of the grazing season were in good condition.

(c) Hay

Four Hay Permits were issued.

(d) Uses

Two hundred and thirty-seven grazing and miscellaneous use permits were issued during the year.

NEW CONSTRUCTION

2,909 1/2 man-days were spent by ranger staff in the construction of projects authorized by the Eastern Rockies Forest Conservation Board.

MAINTENANCE

2,327 1/2 man-days were spent by ranger staff in the maintenance of existing improvements.

FISH AND GAME

1,261 man-days were spent on fish and game patrol.

RECREATION

Use of the reserves for recreational purposes has increased considerably. The increase in travel on the reserves is no doubt due to some extent to the establishment of the main trunk road, and improvement of secondary roads.

GRAZING STATEMENT
ON FOREST RESERVES - 1953-54

Forest	No. of Permits	No. of Horses	No. of Cattle	No. of Sheep
Crowsnest	183	35	14,027	1,150
Bow River	80	196	7,770	—
Clearwater	21	57	596	—
TOTAL	284	288	22,393	1,150

	Total for the Period 1931-54 Incl.	Average Per Year
Number of Permits	10,999	458
Number of Horses	58,893	2,454
Number of Cattle	514,667	21,444
Number of Sheep	92,900	3,871

Fish and Game Administration

REPORT OF THE FISH AND GAME COMMISSIONER

E. S. HUESTIS

The most interesting activity in the Fish and Game Branch for the year was the experiment of planting rainbow trout in small water impoundments, dugouts and small lakes where they were found to be suitable and particularly where they were close to large centres of population. It was the first year for this experiment and the results were most gratifying. It was found that fingerling fish, four to six inches long, placed in some of these waters in early spring produced fish of from ten to twelve inches in length and good weight by early fall. The interest of the public in the experiment has been tremendous due to the fact that angling is now available without having to travel great distances.

In addition to the study of the above waters, biological surveys are continuing on the main watersheds and on the principal larger lakes. In view of the large amount of both types of water, the survey has to be spread over a number of years.

Angling in trout waters was generally good throughout the year with the possible exception of the Spray Lake district where there was a decline in the angler's catch. It was indicated by reports of anglers in the Spray Lake area that 55% of the visitors caught no fish and less than 10% caught five or more fish per visit.

For the fourth consecutive year the biological station has been in operation at Gorge Creek, west of Turner Valley. At this station studies are being made of the migration instincts of cutthroat trout. In addition, studies are being conducted on the survival of wild, pond-raised and special hatchery-raised fish introduced in previous years.

During the year angling pressure increased by eight thousand licenses or an increase of 32% over the previous year. Since 1944, a period of ten years, angling pressure has increased by 429%.

Commercial fishing activity has remained about the same as in previous years. On the other hand, fish production has increased by 9% to eleven million pounds. Over a ten-year period the increase has been 40%. Most of the increase for this year has been in species other than whitefish and tullibee, principally pickerel. The latter species showed a gain of 286%.

The export of fish from the Province rose by 39% during the year with the United States taking 90% of the total export. As in former years the principal export species was whitefish, representing 85% of the total.

The return to the fisherman has increased slightly from the previous year. Returns show an 11% increase. The average price received by fishermen for important species on a per pound basis was: whitefish 12 1/2¢, pickerel 12¢, perch 7 1/2¢, pike 5 1/2¢, tullibee 3¢.

Turning to the game picture, the season on moose, having been closed for the years 1950 and 1951, was opened in 1952 and had to be closed again in 1953. The reason for this decision was based on reports received from hunters which showed that 60% of all antlered animals taken were moose in spite of a large population of elk and a good population of deer existing in the same hunting areas. It was felt that the moose population would not stand continued shooting pressure of this kind.

The fall of 1953 was again a warm, dry open season, making the hunting of big game difficult. As a result most hunters who would normally get one big game animal were forced to return without any big game whatsoever.

Surveys of migratory waterfowl showed an increase for the third consecutive year. In spite of this increase and very large numbers of ducks in the Province, the warm open fall made hunting somewhat difficult and the bag to the hunter generally was not as good as in previous years. The weather remained so good throughout the late fall that a larger number of ducks than usual attempted to stay on in open water throughout the winter months. Many of these birds perished when weather conditions became severe in the latter part of the winter. Attempts were made by well-meaning people to feed these ducks and carry them through the winter but investigations by competent experts have proven conclusively that such an effort is of little value as it would appear that nature will take its toll regardless. The number of ducks which can be salvaged in this way is extremely low and they are of little value the following spring in the raising of a new crop.

Upland birds in the northern part of the Province were not as plentiful as in the previous year. However, in the southern part of Alberta upland birds were in good supply. Wherever pheasants are normally found in the Province, they were in fairly good supply.

Twelve years ago this Province was faced with a possible extinction of the beaver population. Surveys showed that there were only small numbers in isolated points. Conservation measures were put into effect and protection was provided for the beaver to bring back the numbers of this valuable fur animal and water conserver. Over a period of years the beaver population has built up. Unfortunately, now that there is a large population which is spreading into settlement and might be a boon to the farmer not only for water but also for fur, the price has depreciated to a point where the fur is of little value. As a result of the low price, people have lost interest in taking beaver for the sake of the pelt. The increase in population has caused damage through flooding in settled areas of crops, hay land, roads and bridges. The department has had to increase its staff of live beaver trappers in an attempt to move beaver where they are creating damage to areas throughout the forested area of the Province where they will be of value to the trapper just as soon as the price recovers.

Not only is the price of beaver reduced. The same is true of most long-haired fur, particularly lynx and marten. Even muskrat is down in price. Mink and squirrel on the other hand have increased in value.

During the year the number of pelts taken within the Province decreased by 550,000 and the return to the trappers decreased by \$500,000.00 from the previous year.

The rabies campaign which started last year was continued and a very large number of predators and other animals were taken. The results of this campaign halted the rabies epidemic which might have made serious inroads in domestic stock and may have even been fatal to human beings. The animals taken in this campaign were largely predators such as wolves and coyotes or fur-bearing animals which were of little value such as lynx and bear.

We wish to express our appreciation for the assistance given by the Forest Service of this department. Throughout the forested area of the Province forestry personnel take the responsibility for the enforcement of the fish and game regulations. Our thanks is also due to the Royal Canadian Mounted Police detachments throughout the Province for their assistance in enforcement work.

GAME

COMPARISON OF THE NUMBER OF GAME LICENSES ISSUED

Kind	1950	1951	1952	1953
Resident Bird Game Licenses	36,308	39,190	50,965	58,188
Non-Resident (Canadian) Bird Game Licenses	490	317	454	365
Non-Resident (Non-Canadian) Bird Game Licenses	449	419	406	557
Resident Big Game Licenses	12,732	14,340	19,862	6,198
Non-Resident (Canadian) Big Game Licenses		4	8	4
Non-Resident (Non-Canadian) Big Game Licenses	98	119	84	78

GAME LICENSES

April 1st 1953 to March 31st 1954

Kind	Number of Licenses	Fee	Total Amount
Residents' Bird Game Licenses	58,188	\$ 2.50	\$145,470.00
Non-Residents' (Canadian) Bird Game	365	5.00	1,825.00
Non-Residents' (Non-Canadian) Bird Game	557	25.00	13,925.00
Residents' Big Game Licenses	6,198	5.00	30,990.00
Non-Residents' (Canadian) Big Game Licenses	4	50.00	200.00
Non-Residents' (Non-Canadian) Big Game Licenses	78	100.00	7,800.00
Permit to Collect	19	Free	
Taxidermists' Licenses	8	5.00	40.00
Residents' Special	160	5.00	800.00
Non-Residents' Special	55	25.00	1,375.00
Guide's Licenses (Class "A" & "B")	143	2.50	357.50
Guide's Licenses (Class "C")	11	1.00	11.00
Game Farms	18	5.00	90.00
Game Farms	2	Free	
Outfitter's Licenses	35	25.00	875.00
Fur Farms	6	Various	37.00
Resident Trapper's Licenses	2,267	3.00	6,801.00
Permit to Trap Beaver	303	10.00	3,030.00
Dog Trainers	5	Various	45.00
Residents' Spring Bear	25	5.00	125.00
Non-Residents' Spring Bear Licenses	3	25.00	75.00

BOUNTY ON TIMBER WOLVES AND COUGARS - SEASON 1953-54

Timber Wolves and Cougars killed from April 1st, 1953, to March 31st, 1954.

69 Timber Wolves at \$12.00	\$ 828.00
886 Timber Wolves at \$15.00	13,290.00
36 Cougars at \$15.00	540.00

LICENSED ALBERTA FUR FARMS

Beaver	4
Muskrats	1
Raccoon	1

ALBERTA FUR PRODUCTION - SEASON 1953-54

(WILD FUR)

	Total Number of Pelts	Average Value of Pelts	Total Value of Pelts
Badger	14	1.78	24.92
Beaver	14,214	10.81	153,653.34
Ermine	63,666	.96	61,119.36
Silver Fox	32	7.50	240.00
Cross Fox	250	3.85	962.50
Red Fox	741	2.00	1,482.00
White Fox	23	13.39	307.97
Blue Fox	1	6.58	6.58
Lynx	2,965	4.17	12,364.05
Marten	242	10.96	2,652.32
Mink	4,106	21.45	88,073.70
Muskrats	453,768	.83	376,627.44
Otter	60	20.07	1,204.20
Jack Rabbits	1,535	—	—
Bush Rabbits	9	—	—
Skunk	26	1.25	32.50
Squirrel	570,212	.66	376,339.92
Coyote	2,685	1.50	4,027.50
Wolverine	11	19.62	215.82
Total	1,114,560		\$ 1,079,334.12

CONVICTIONS UNDER THE GAME ACT, 1953-54

Number of Convictions 228

CONFISCATED FURS

Amount realized from the sale of confiscated fur during the period
April 1st, 1953 to March 31st, 1954 \$ 306.39

TRAP-LINE REGISTRATIONS

Number of Registered Trap-Lines and Revenue, April 1st, 1953 to
March 31st, 1954.

2,376 at \$10.00	\$ 23,760.00
177 at \$20.00	3,540.00
8 at \$ 1.00	8.00

FUR DEALERS' LICENSES, ETC.

Kind	Number	Revenue
Resident Fur Dealer's Licenses to carry on business in a city, and elsewhere than in a city	246	\$2,460.00
Non-Resident Fur Dealer's Licenses to carry on business in the Province	3	300.00
Resident Travelling Fur Purchasing Agent's Licenses	14	350.00
Furrier's Licenses	19	190.00
Tanner's Licenses	3	30.00

FUR TAX REVENUE

Amount Collected _____ \$ 83,444.05

MUSKRAT AND BEAVER

Muskrat Permits issued	267
Muskrat reported taken	16,850
Beaver Permits issued (Farmer's Land, Roads and Irrigation)	830
Beaver reported taken (Farmer's Land, Roads and Irrigation)	4,365
Beaver Permits issued (On Registered Trap-Lines)	1,221
Beaver reported taken (On Registered Trap-Lines)	10,061

FISH

LICENSES AND PERMITS

Kind	1949-50	1950-51	1951-52	1952-53	1953-54
	No.	No.	No.	No.	No.
Angling Permits (Season)	17,208	18,658	20,303	23,270	30,842
Angling Permits (Limited)	1,788	2,181	2,113	2,318	2,935
Domestic Licenses	90	102	118	139	108
Fisherman's Licenses	2,581	3,617	4,926	5,159	5,129
Commercial Licenses	147	166	230	280	366
Fish Dealer's Licenses	93	124	119	93	84
Motor-Boat Licenses	32	40	73	32	39
Total	21,939	24,888	27,882	31,291	39,503

COMMERCIAL PRODUCTIONS OF FISH

Species	1949-50	1950-51	1951-52	1952-53	1953-54
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Whitefish	1,869,849	2,108,434	2,745,433	3,113,007	3,161,001
Trout	15,177	9,154	8,393	10,886	6,268
Pike	592,782	376,458	513,049	475,485	503,349
Pickereel	135,656	127,622	224,135	142,446	407,648
Perch	54,265	19,098	58,972	192,775	150,544
Tullibee	3,159,532	3,591,704	5,004,601	5,703,285	5,970,966
Mixed Fish	456,799	378,630	355,911	297,932	660,563
Total	6,284,060	6,611,100	8,910,494	9,935,816	10,860,339

	Weight Lbs.	Value to Fishermen	Value as Marketed
Totals for year 1949-50	6,284,060	\$ 377,114.44	\$ 652,538.06
Totals for year 1950-51	6,611,100	381,018.63	652,000.34
Totals for year 1951-52	8,910,494	617,834.15	946,535.62
Totals for year 1952-53	9,935,816	629,847.60	899,720.32
Totals for year 1953-54	10,860,339	699,150.16	1,205,969.04

FISH EXPORTED FROM ALBERTA 1953-54

Species	Canadian Markets Lbs.	United States Markets Lbs.
Whitefish	61,679	2,051,807
Pickereel	181	325,885
Pike	1,487	97,781
Perch	180	155,691
Trout	—	2,880
Tullibee	—	137,655
Total	63,527	2,771,699

	1952-53	1953-54
Prosecutions	137	202
Confiscations	101	112

STOCKING TO ANGLING WATERS 1953

Species	Eyed Eggs No.	Fingerlings No.	Yearlings No.	Adult No.	1-2 Years No.	Fertilized Eggs No.
Rainbow trout	—	353,040	59,772	—	—	—
Eastern Brook trout	—	42,090	2,350	—	—	—
Cutthroat trout	10,560	41,160	12,364	—	—	—
Loch Leven trout	—	25,695	1,175	—	—	—
Lake trout	83,766	—	—	—	—	—
Salmon	93,049	—	—	—	—	—
Eastern Brook) & Loch Leven)	—	—	19,850	—	—	—
Pike	250,000	—	—	36	—	—
Perch	—	—	—	26,084	28,500	—
Pickereel	3,000,000	—	—	1	6,000	—
Tullibee	—	—	—	—	—	6,454,600
Spottail Minnows	—	—	—	7,500	—	—
Total	3,437,375	461,985	95,511	33,621	34,500	6,454,600

TOTAL DISTRIBUTION - 10,517,592

Preliminary biological surveys carried out during 1953:

ATHABASCA DRAINAGE:

Eagle (Saquatamau) River
Chichadee Creek
Two Creek

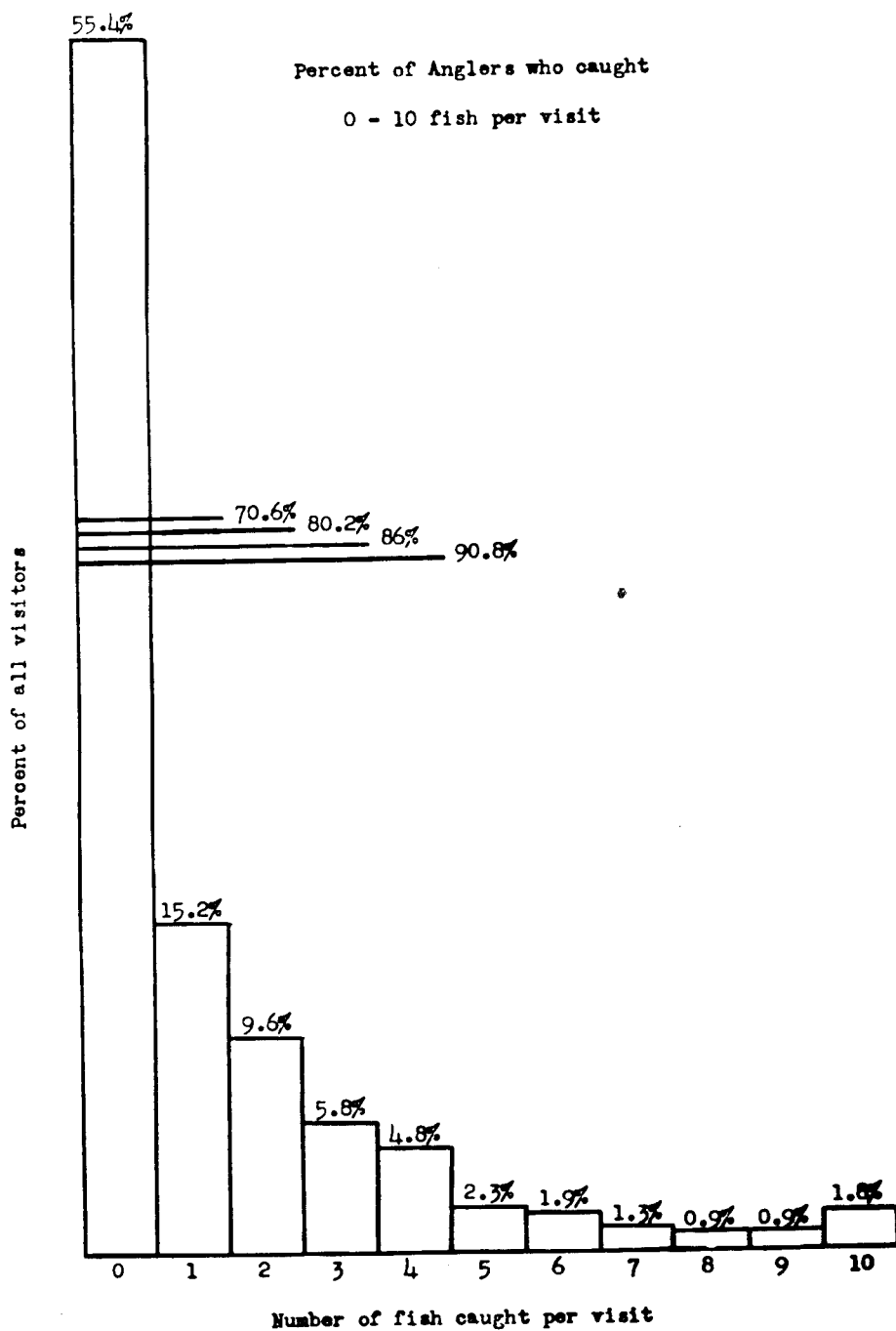
NORTH SASKATCHEWAN DRAINAGE:

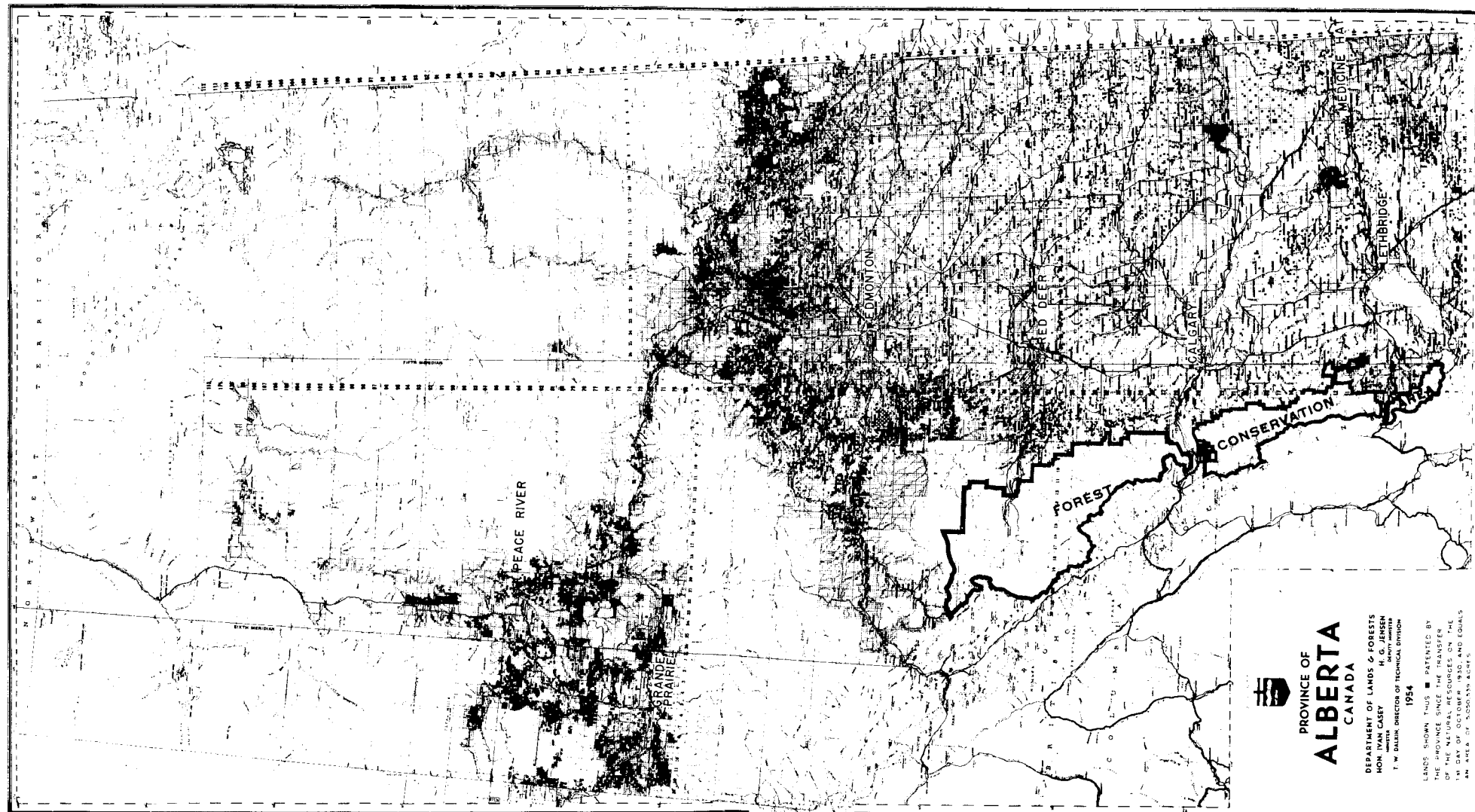
Ram River
Hummingbird Creek
Fox Creek
Clearwater River
Peppers Creek
Elk Creek
Radiant Creek
Idlewild Creek
Seven Mile Creek
Tay River
Beaver ponds on tributary of Tay River
Cutoff Creek
Rocky Creek •
Limestone Creek

LAKES AND RESERVOIRS

Hassie Lake (Stony Plain District)
Ossenchuk Lake (Derwent District)
Spring Lake (Metiskow District)
Parr Reservoir (Castor water supply)
McKinnon Lake (Strathmore District)
Snake Creek Reservoir (Vulcan District)
Obed Lake
Whitewood Lake
Cottage Lake
Chichako Lakes (Stony Plain District)

SPRAY LAKE - 1953





PROVINCE OF ALBERTA CANADA

DEPARTMENT OF LANDS & FORESTS
HON. J. C. CASEY
MINISTER
T. W. DALRYMPLE, DIRECTOR OF TECHNICAL DIVISION

1954

LANDS SHOWN THUS ■ PATENTED BY
THE PROVINCE SINCE THE TRANSFER
OF THE NATURAL RESOURCES ACT TO
THE DAY OF OCTOBER 1930 AND EQUALS
AN AREA OF 2,000,000 ACRES

Technical Division

Report of the Director of the Technical Division

T. W. DALKIN

Since the transfer of the natural resources by the Dominion Government to the Provincial Government on October 1st, 1930, it can now be reported that up to the end of this fiscal year March 31st, 1954, lands exceeding five million acres have been patented. To be exact, a grand total of 5,050,549 acres, more or less, of land has been patented, for which legal descriptions have been draughted for 32,216 notifications, for registration in the Land Titles Offices, upon which certificates of title have been issued. These notifications were issued for lands that have been acquired by purchase for farm homes, commercial and industrial purposes, railway rights-of-way, school sites, church sites, etc. Of course, by far the greatest area has been patented to settlers upon the land in the nature of homesteads.

In addition to this grand total, notifications have been prepared for lots in subdivisions in various townsites scattered throughout the province. Some of these lots are located in government townsites and other lots that had been purchased by private individuals have come into the possession of the Crown through tax recovery proceedings. Throughout the years, almost 3,000 lots in subdivisions have been patented.

A reference to the accompanying map, shows in black the location of the lands patented by the province to date. The map is striking evidence of the settlement that has taken place in Alberta during the last 23 years. The extent of the settlement in the great Peace River country stands out vividly as also does the dense settlement in the northerly circle tributary to Edmonton and the surrounding towns. Between Edmonton and Red Deer, west of the 5th Meridian, a considerable area of land has also been patented. This map shows in graphic form the shift of the centre of population further to the north.

The area of lands patented each year seems once more to be on the upswing. Last year an area of over 58,000 acres was patented, whereas this year legal descriptions were draughted for almost 71,000 acres of land and 160 lots.

NOTIFICATIONS ISSUED DURING FISCAL YEAR
April 1st, 1953 to March 31st, 1954
(For Surface Rights)

Classification	Notifications	Area
Homesteads	4	635.56
Free Grants	5	330.16
Exchanges	5	2,936.62
Supplementary Grants	4	14.21
Quit Claims	3	5.00
Second Homestead	1	160.00
Release of Habendum	7	19.40
Special Grants	6	25.23
Sales (Including Lots in Subdivisions)	211	11,369.42
School Land Sales (Including Lots in Subdivisions)	73	11,660.65
Homestead Sales	202	43,778.02
Total	521	70,934.27

NO. OF SALES IN SUBDIVISIONS WHICH ARE INCLUDED
IN THE 211 NOTIFICATIONS REFERRED TO ABOVE

Subdivision	Notifications	No. of Lots	No. of Blocks
Canmore, 39 General	24	37	7
Crystal Springs	1	9	
Seven Persons, 610 W	2	6	2
Grand View, 1109 B. F.	1	3	1
Ghost River, 6490 E. L.	68	79	7
Carbondale, 232 A. I.	1	14	2
Shepard, 4729 L	1	2	1
Waiparous, 3046 E. X.	3	9	2
Morningside, XVIII	1	1	1
Total	102	160	23

SUBDIVISIONS INCLUDED IN THE 73 NOTIFICATIONS
ISSUED UNDER SCHOOL LAND SALES

Willingdon, 1329 H. W.	1	1	1
Total	1	1	1

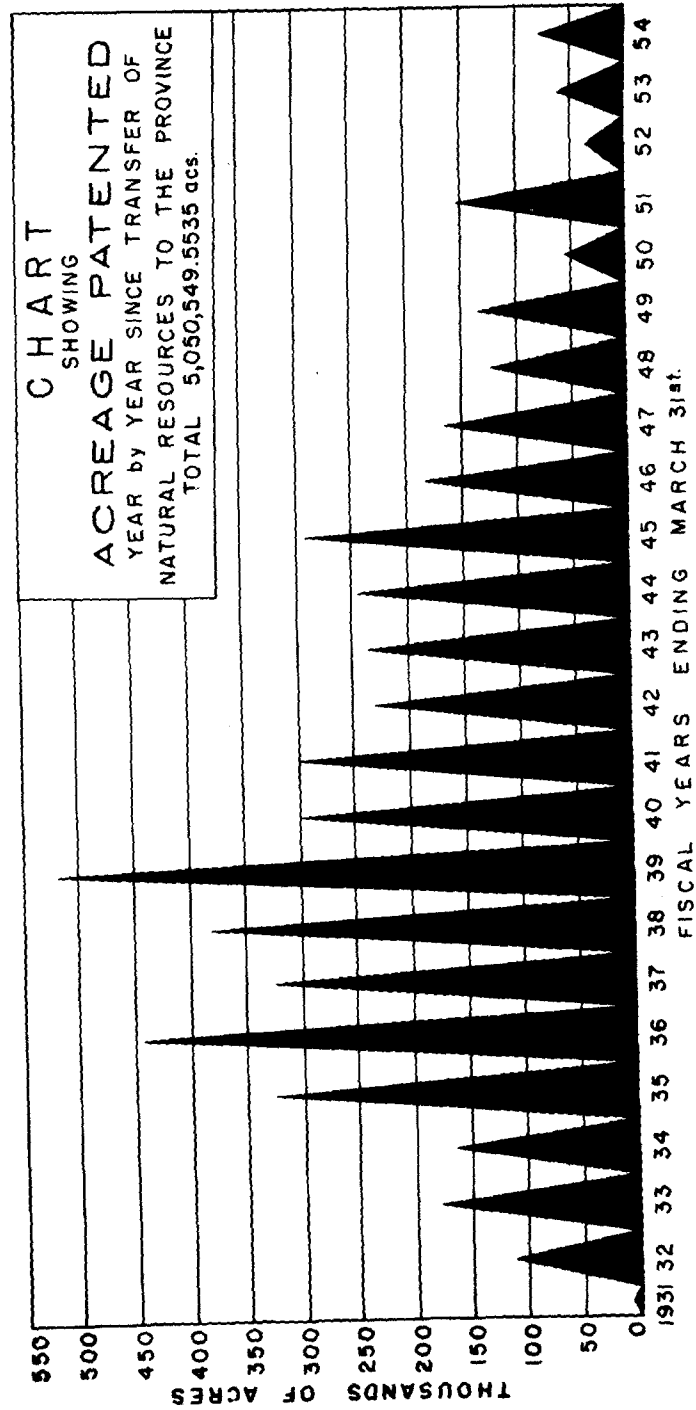
Area not stated in these = 105

102 Sales
1 School Land Sale
2 Quit Claims

105

Total No. of Notifications in which area stated 416

Total No. of Notifications 521



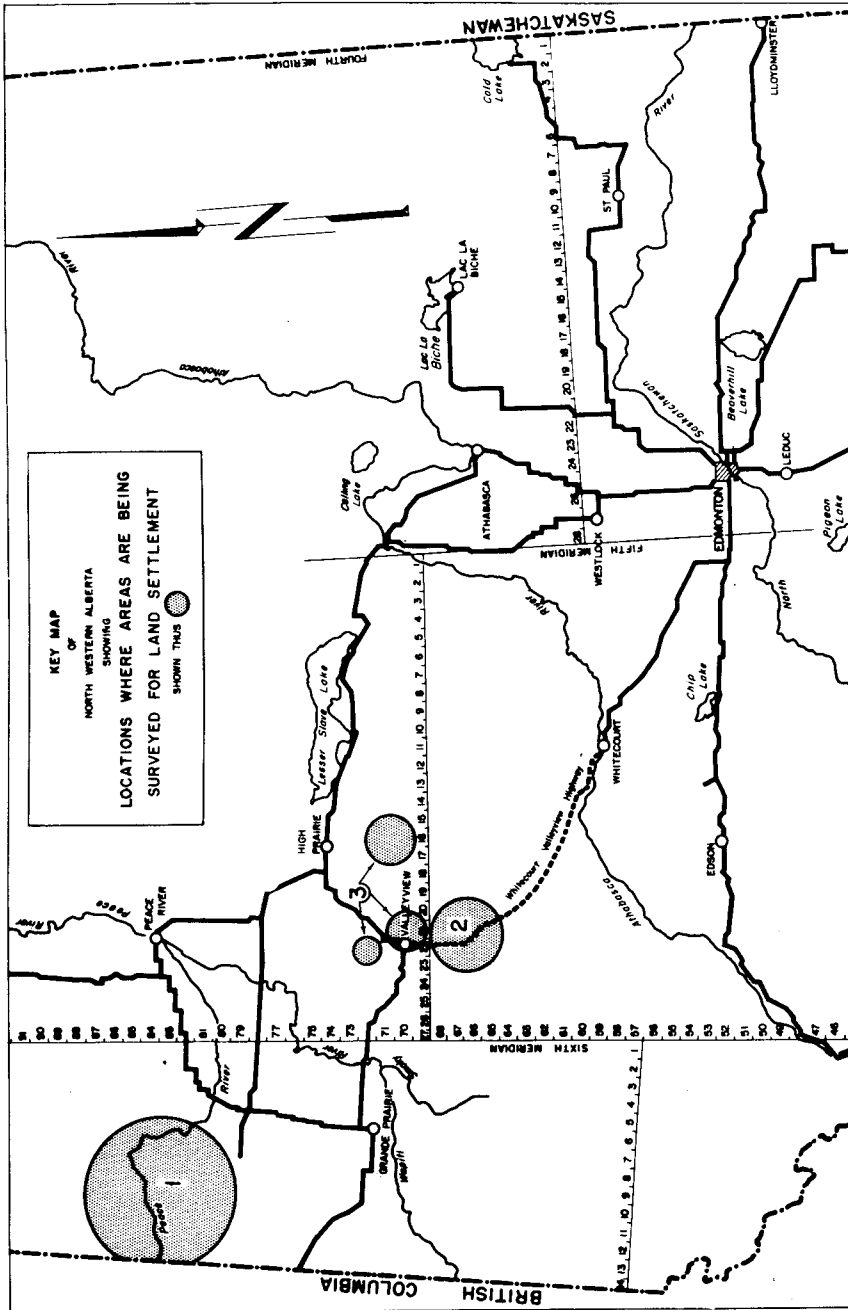
LAND SURVEYS

Heavy rains during the survey season were again a deterrent factor in the progress of the surveys for land settlement purposes. Under the circumstances, however, fair to commendable progress was made on these surveys, depending upon the extent of the rainfall in the different areas, accessibility, and the nature of the terrain. The surveys in the large block of land in the Blueberry Mountain Area north and west of the Town of Spirit River near the British Columbia Boundary continued to forge ahead. In the interests of economy arrangements were made whereby the banks of the Peace and Clear Rivers in Townships 83, 84 and 85, Range 11, West 6th Meridian and Townships 82 and 83, Range 12, West 6th Meridian were traversed in the winter. In comparison with summer operations, employing boats and a larger party, a considerable saving of time and costs resulted from making the traverses on the ice.

Five survey and levelling parties were in operation during the season:

1. Blueberry Mountain Area.
2. South of Valleyview in Townships 65, 66 and 67, Range 21, West 5th Meridian through which the new Whitecourt-Valleyview Highway "cut-off" passes.
3. Completion of Snipe Lake survey in Township 71, Range 17, West 5th Meridian commenced in the previous year and new surveys north of Valleyview in Township 72, Range 22, West 5th Meridian and east of Valleyview in Township 70, Range 21, West 5th Meridian.
4. Astronomical observations and establishment of elevations in the Battle River area in Townships 94, 95 and 96, Ranges 20, 21 and 22, West 5th Meridian adjoining the McKenzie Highway.
5. Restoration Surveys

In view of the inclement weather and other obstacles, including some difficult terrain, the overall results of the survey program can be reviewed with satisfaction and approximately eight more townships will now be available for land settlement purposes.



RESTORATION SURVEYS:

The second year's restoration survey continued from the 20th of May until the 11th of December, 1953, and another successful season can be reported, even though the unusual amount of precipitation made progress very slow from the 20th of May until the end of July. This was partially offset, however, by the very fine fall weather which again prevailed as it did in the season of 1952.

During the year approximately 350 survey monuments were restored as compared to the 493 restored during the 1952 survey season. This drop was due in part to the wet weather and also to the fact that all lines had to be resurveyed rather than restored from evidence.

Accounts in the amount of \$25,957.65 have been sent to the following companies.

Amerada Petroleum Corporation
British American Oil Company
Canada Cities Service Oil Company Limited
Stanolind Oil and Gas Company
Canadian Gulf Oil Company
Hudson's Bay Oil & Gas Company
Shell Oil Company
California Standard Oil Company
Pacific Petroleums Limited

A conference took place on the 19th of January, 1954, in Calgary, with various representatives of the major oil companies present. At this time a thorough discussion into the department's requirements with regard to bulldozing and the protection of survey monuments was held and all companies are now fully aware of the department's requirements and the wholesale destruction of survey monuments is now under control. This is borne out by the fact that there have been very few reports come into this office regarding destruction from this past winter's seismic operations. It may be pointed out, however, that a great deal of old unreported destruction was encountered that will add approximately one year to our program.

In reviewing the results of these restoration surveys, the cost of which are paid by the oil companies responsible for the destruction, a definite understanding has been reached with the oil industries and a spirit of co-operation established in the application of the regulations created by Order-in-Council No. 122-52. This is most gratifying particularly when it is realized that it is within the last three or four years that the department discovered the destruction of the survey monuments in the north due to the accelerated search for oil.

BOUNDARY SURVEYS

Boundary Between Alberta and North West Territories

As reported last year the survey of this boundary from Slave River west to the north west corner of the province has now been completed but unfortunately that portion of this boundary east from Slave River

comprising about sixty-six miles still remains unsurveyed because it was not possible for the Dominion Government to assemble a survey party to undertake this work. Assurances, however, have been given that this boundary will be completed in the forthcoming season.

Wood Buffalo Park

The survey of the boundaries of this park has now been completed and five plans of portions of this boundary have been received from Ottawa as follows:

1. 31st Base Line - Twp. 120, Rges. 3 to 7 incl., West 5th Mer.
2. 31st Base Line - Twp. 120, Rges. 8 and 9, West 5th Mer.
3. East outlines of Twps. 121, 122, 123, Rge. 10, West 5th Mer.
4. East outlines of Twps. 124, 125, 126, Rge. 10, West 5th Mer.
5. East outlines of Twps. 127, 128, 129, Rge. 10, West 5th Mer.

Alberta-British Columbia Boundary

The survey of this boundary has also been completed and eight provisional plans of survey have been received from Ottawa covering a distance of approximately 126 miles extending from 3.84 miles South of latitude $57^{\circ} 30'$ to latitude $59^{\circ} 20'$.

All these provisional plans show the profile of the boundary with elevations and also the bearings and distances between the monuments.

In view of the value of these surveys all the oil companies and exploration companies were advised that copies of these plans are available from this office in order to safeguard the survey monuments during their oil exploratory operations.

MISCELLANEOUS SURVEYS

Many other types of surveys were given attention ranging from surveys in provincial parks to surveys on Crownlands occupied by squatters in the Drumheller area. A brief reference to some of these surveys is as follows:

1. A plan of survey of the right bank of the North Saskatchewan River in the South East quarter of Section 7, Township 53, Range 23, West 4th Meridian, was presented for examination under Chapter 42, Section 80 of The Land Titles Act necessitating a survey upon the ground to ascertain the extent, if any, of the Crown land involved. It was ascertained that the old traverse of 1882 had changed and the 1953 survey shows that an area of 0.35 of an acre of Crown land was involved for which a supplementary grant was registered in the Land Titles Office.

2. An interesting survey was executed in the North West quarter of Section 24, Township 24, Range 2, West 5th Meridian, just to the West of the City of Calgary and through which quarter section the Bow River runs. The original patent was issued by the Dominion Government according to a survey made in 1885 and when a plan of survey of the Canadian Western Natural Gas Company's pipe line was presented

for registration it was found that Crown land was involved necessitating a further survey upon the ground. This survey reveals that the original survey of 1885 was in error to such an extent that a considerable portion of the land lying North of the Bow River according to the old survey was actually South of the river according to the latest survey. There was no evidence that the river had changed its course to any appreciable extent and it was necessary to issue a grant to the adjoining owner who was the son of the original patentee of the land. The grant covered an area of 32.11 acres, more or less.

3. A subdivision plan of survey adjoining the shore of Pine Lake in the South East quarter of Section 7, Township 36, Range 24, West 4th Meridian, was examined and after a survey it was established that a portion of the subdivision was covered by the waters of the lake at the time of the original survey in the year 1893 and consisted of unpatented Crown land.

4. A complaint was received regarding the depth of the lots adjoining Pigeon Lake in the Moonlight Bay Subdivision and a survey was made definitely establishing the correct boundary.

5. Some years ago a start was made on the survey of lands occupied by squatters in the Drumheller area and owing to the difficulty in obtaining experienced personnel the completion of these surveys was delayed until this year. Three additional surveys were completed as follows:

(a) Twenty-four parcels of land were surveyed showing the location of the houses, buildings and fences in the South East quarter of Section 9, Township 29, Range 20, West 4th Meridian.

(b) A similar survey was made in the South West quarter of Section 11, Township 29, Range 20, West 4th Meridian, involving seventy-one parcels of land. This subdivision is known as the Elgin area, Drumheller.

(c) A third survey of this nature was made in the South East quarter of Section 10, Township 29, Range 20, West 4th Meridian, covering 93 parcels of land, and this subdivision is known as Plug Street, Drumheller.

Plans showing the details of these surveys were forwarded to our Director of Lands so that leases may be issued to the occupants of the lands.

6. A report was received that the patented land in the South West quarter of Section 30, Township 54, Range 4, West 5th Meridian, was flooded. The Sturgeon River flows through this land and the survey shows that an area over ninety acres of the land had been flooded. This survey was made at the request of the Department of Water Resources.

7. An application was received for the sand and gravel in the North Saskatchewan River adjoining the island and the left bank of the river in the South West quarter of Section 20, Township 51, Range 25, West 4th Meridian. A survey was made which supplied the necessary information

to deal with this application and an area of .25 of an acre was also surveyed on the eastern shore of the island showing the location of a shack and other buildings in conjunction therewith.

8. Surveys were carried out in the following provincial parks:

(a) Vermilion Park - A survey of the roadway along the South side of the Vermilion River was made and also, at a later date, a survey of the land belonging to the Canadian National Railway Company was necessary in order that plans could be prepared to acquire title to this company's land within the park.

(b) Additional lots were surveyed at Beauvais Lake Park and still another survey was made at a later date at this location in order to provide access by means of an easement from the road allowance adjoining the South boundary of the South East quarter of Section 29, Township 5, Range 1, West 5th Meridian, to the South boundary of the park.

(c) Representations were made to establish a park near Champion in the East half of Section 2, Township 15, Range 22, West 4th Meridian, to be known as Little Bow Park. A survey was made in order to ascertain the extent of the land that could be leased for cultivation purposes.

(d) The Advisory Committee met with the Parks Board to emphasize the necessity of extending the limits of the land included within Rochon Sands Park. As the waters of Buffalo Lake had receded, it was pointed out that suitable land was now available on the lake front for park improvements. A survey was made of the land given up by the recession of the waters of this lake and an agreement was reached with the Advisory Committee whereby certain lots fronting on the lake would be transferred to the Crown so that they could be included within the park limits along with the accrued area.

(e) A survey was made and levels were established at the Cypress Hills Provincial Park for the preparation of plans and profiles in connection with the installation of a water supply to the Elkwater Sub-division within the park.

A survey of a site containing three acres was made at this park in the North East quarter of Section 19, Township 8, Range 2, West 4th Meridian, in order to accommodate an occupant who was re-located on this land from an area overlooking the lake thereby enhancing the appearance of the park near the lake.

(f) From Crimson Lake came a request to survey more lots for summer residents.

An inspection was made and a suitable area was located near the Southerly end of the lake and adjoining the Westerly shore.

PLANS OF SURVEY

Many plans of surveys were submitted for examination and filed in the office so that the rights of the applicants may be established upon Crown land.

Pipe Line Surveys

Thirty-nine plans of survey of pipe lines were examined, one of which was located across the bed of the Bow River as follows:

Canadian Western Natural Gas Company, across Bow River in the North West quarter of Section 24, Township 24, Range 2, West 5th Meridian.

Transmission Lines

A total of twenty-eight surveys were examined for the rights-of-way of transmission lines throughout the province. These plans were filed in the Technical Division and formed the basis for the issue of licenses of occupation or easements.

Subdivision Plans

A total of forty subdivision and parcel plans bordering on rivers and lakes were referred to this division under Chapter 42, Section 80 of The Land Titles Act and upon examination, it was found that thirty-six of these plans of survey did not involve any Crown land.

The other four plans of survey did encroach upon Crown land and Notifications were issued to the registered owner of the adjoining land in each case.

Well and Battery Sites

One hundred and twenty-five plans of survey of well and battery sites were examined and recorded in order that Crown lands may be acquired for the well and battery sites under The Right of Entry Arbitration Act.

Roadways

As in other plans of survey there was an increase in the plans of roadways affecting Crownlands. This year a total of seventy such plans were received from the Department of Highways and municipalities. These plans were checked and the usual reservations were entered in the records reserving the land for road purposes.

AERIAL SURVEYS 3333' to 1" PHOTOGRAPHY

With reference to this photography the province, containing an area of 255,285 square miles, is now completely covered stereoscopically. Whilst it is true some distortions appear on the photography in certain areas, it was agreed to accept this photography due to the fact that it was possible to obtain the necessary details therefrom for the draughting of our maps under the agreement established by Order-in-Council 1338/49 dated the 2nd day of November, 1949, and subsequent orders-in-council.

1320' to 1" Photography

The following are the areas covered by 1320' to 1" photography:

South of Latitude 57° 00' -	94,164 square miles
North of Latitude 57° 00' -	21,961 square miles
TOTAL	116,125 square miles

Area to be completed North of 57°00' - 5,539 square miles

Area to be completed South of 57°00' - 500 square miles
(gap flights)

A contract was awarded Photographic Survey Corporation to photograph 28,000 square miles, scale 1320' to 1", for forest inventory purposes North of Latitude 57°00' but to date only 78% (21,961 square miles) of this contract has been completed.

The balance of 6,039 square miles is to be completed during the flying season 1954-55. This also includes all gap flights created during the flying season 1953-54.

Assurances have been given that the 500 square miles of gap flights referred to above, and which are located in the mountainous area, will be flown during the coming season.

PHOTOGRAPHIC LIBRARY

Photographs on File

3333' to 1"	75,480
1320' to 1"	169,026
Total on file	244,506

Owing to the steady demand, great inroads were made upon this photography and as soon as the demand slackens the depleted stocks in the library will be replenished.

There were 28,418 R.C.A.F. photographs, upon a scale of 1320' to 1", on file in the library, but as representations were made from the Forestry Division that this photography would be of value in the forest inventory of timber, these photographs were all transferred to the Forestry Division.

Aerial Photographs Sold During the Fiscal Year

	Commercial Rate		Department Rate		Department Use	
	3333	1320	3333	1320	3333	1320
April	2352	130	421	5	711	0
May	1743	6	127	2	8641	0
June	1334	1989	260	0	34	0
July	1706	40	135	0	185	169
August	513	67	594	0	30	0
September	6579	453	331	0	37	2
October	1283	2	192	0	11	0
November	894	85	30	171	46	0
December	312	0	236	0	527	0
January	6524	5	42	11	11202	0
February	4465	324	19	0	111	0
March	6407	0	544	0	1255	0
Totals	34112	3101	2931	189	22790	171

Whilst there was a decrease in the sale of photographs of the 3333' to 1" scale from last year, the overall picture shows that a grand total of 63,294 photographs were produced during the present year as compared with 55,943 photographs for last year, representing an increase of 7,351 photographs.

There was an increase of 10,449 photographs for departmental use due to orders received from the Forest Inventory and Forest Protection Surveys Branches. It is the intention to supply each forest ranger with complete photographic coverage of his ranger subdivision.

Transfer of Aerial Films to Edmonton

It can now be reported that this division has received all the aerial films taken under our agreement with the Photographic Survey Corporation and also the 1320' to 1" films covering thirty-four thousand square miles, more or less, south of latitude 57° 00' taken for forest inventory purposes by the Aero Surveys Limited of Vancouver.

There are now 877 rolls of films deposited in our provincial vault, 345 of which are on a scale of 3333' to 1" and 532 are on a scale of 1320' to 1". Of the 532 rolls, 342 were forwarded by the Photographic Survey Corporation of Toronto and 190 by the Aero Surveys Limited, Vancouver.

Now that the films are deposited in Edmonton, considerable satisfaction can be expressed in the fact that our own photographic laboratory has been established making it possible for the division to supply the photography direct to the oil companies, geologists, surveyors, engineers, mappers, industrialists and the general public and thus cut down considerably the time of delivery. It must be pointed out, however, that a large backlog of photographs has been built up while the department was dependent upon Toronto for the development of the prints. In order to overcome this backlog arrangements were made for the staff

to work overtime and it is now anticipated that it will be possible, during the forthcoming year, to overcome this backlog and replenish our library so that immediate delivery can be made of all aerial photographic orders.

A staff of five has this work well in hand and are using two Morse Contact Printers and two Pako Dryers.

Some years ago in the Annual Report, reference was made to the fact that it would be possible to use the aerial photography for assessment purposes. Equipment is now on order so that our photography can be enlarged five and one-half times and from these enlargements municipalities will be able to cut down much time and expense in the preparation of new assessments.

Aerial Mapping

This division received during the fiscal year an additional 88 planimetric proof sheets on a scale of 3333' to the inch from the Photographic Survey Corporation to be checked stereoscopically from our provincial photographs before being returned for finalization of the 1" to the mile maps.

One hundred and twenty-one (121) finalized 1" to 1 mile planimetric maps upon autopositive film and autopositive linen were checked and edited for publication by December 7th, 1953. This brought to a conclusion the provincial planimetric mapping program with the Photographic Survey Corporation. A total of 595 map sheets were compiled under the agreement comprising in the neighbourhood of 195,000 square miles.

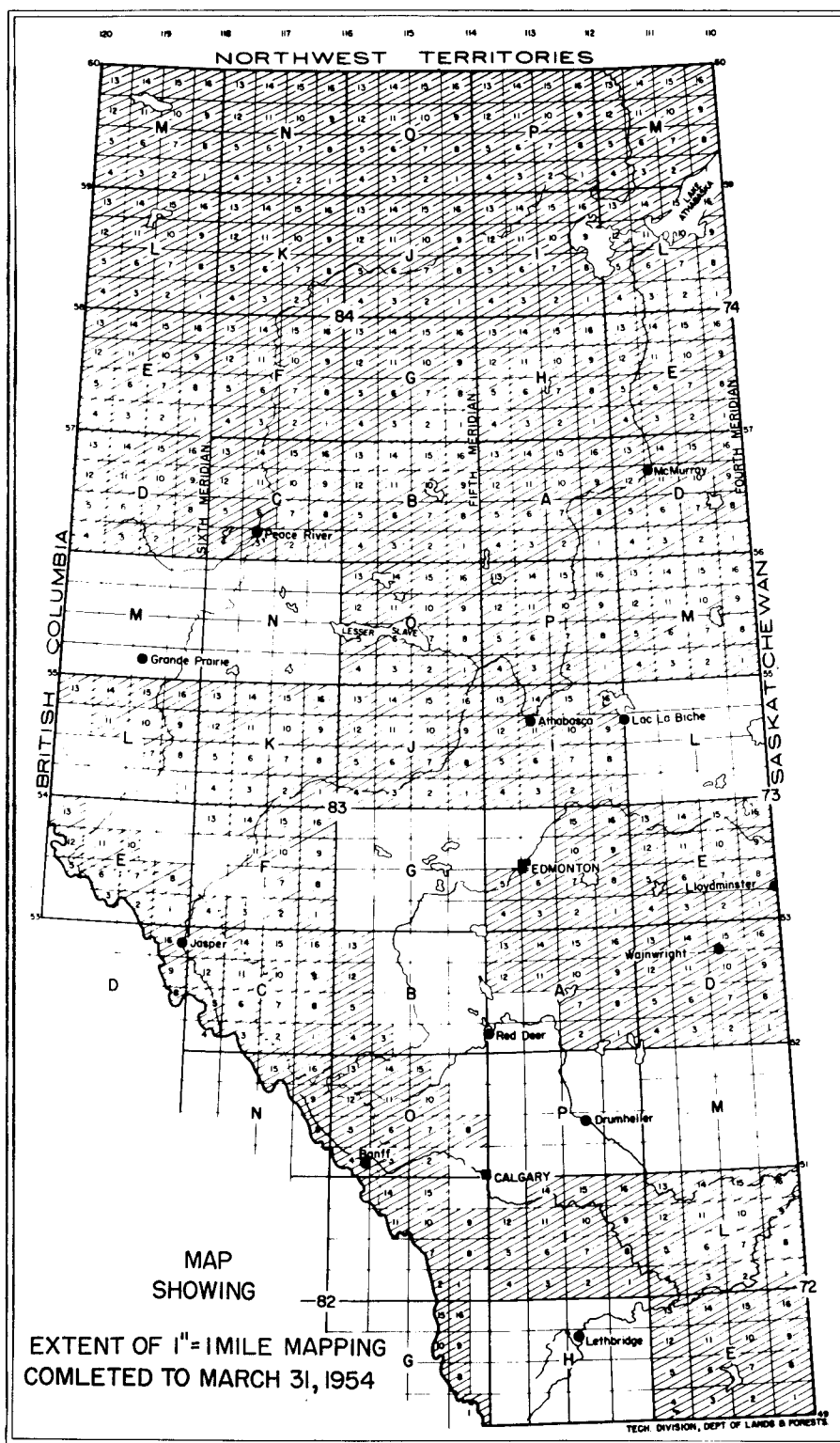
The final shipment of the 1/40,000 (3333' to the inch) fair drawings were received on January 19th, 1954, and all other survey and mapping data used by the Photographic Survey Corporation in the mapping contract was returned and is now on file in the Technical Division.

Planimetric Maps

	No. of Map Sheets	Square Miles
Area mapped as of March 31st, 1953	474	166,728
Area mapped as of March 31st, 1954	595	195,000

This division completed the planimetric mapping of sheets 84-C-3-6 and 84-D-1-8 by the slotted template method comprising a total of 3,997.89 square miles.

A topographical plan was prepared of the Town of Bonnyville upon a scale of 200' to 1" with a 2 1/2 foot contour interval. This plan was prepared for the Town and Rural Planning Commission by the multiplex optic mapping equipment.



Aerial Photographic Survey Act

Ten flying licenses were issued under this Act details of which are as follows:

Lic. No.	Licensee	Date Issued	Flying Contractor
24	U.S. Fish and Wild Life Assoc.	30 April 53	Own Aircraft
25	Edmonton District Town Planning	8 May 53	Aero Surveys, Vancouver
26	Imperial Oil Co.	29 May 53	Imperial Oil Co.
27	Imperial Oil Co.	22 July 53	Imperial Oil Co.
28	Water Resources	5 August 53	Spartan Air Services
29	Spartan Air Services	5 August 53	Spartan Air Services
30	Allied Advertising Agency	4 November 53	Chartered
31	Edmonton District Town Planning	7 December 53	Spartan Air Services
32	Photographic Survey Corporation	18 December 53	Photographic Survey Corp.
33	Imperial Oil Ltd.	1 March 54	Imperial Oil Ltd.

Licenses No. 23, 25 and 27 were extended to the 31st of March, 1955. Commercial License No. 23 was issued on October 14th, 1952, to the Aero Surveys Limited of Vancouver.

MAP PUBLICATIONS

8 Mile Map of the Province

The volume of maps sold by this division and distributed throughout the various government departments is still on the upswing. This particular map of the province is issued in four sections and during the year it was necessary to obtain a re-issue as follows:

4,000 copies of the North East Section
 5,000 copies of the North West Section
 5,000 copies of the South East Section
 3,000 copies of the South West Section

The original tracings of the 8 mile map were prepared by this division many years ago and have been made available to the other departments throughout the government for the publication of various maps upon different scales to suit the particular requirements of each department.

The old tracings are being used to such an extent that they are now no longer acceptable for reproduction purposes and a determined effort must be made in the near future for the draughting and designing of a new map of Alberta. This new map will have the advantage over the old one in that it will be constructed in accordance with the Transverse Mercator Project, and further it will show, particularly in the northern and north western areas of our province, all the topography available from our aerial photography.

16 Mile Map of the Province

This map is identical with the 8 mile map and on account of the smaller scale is issued in one section.

Three thousand additional copies were obtained during the year.

There is no doubt that our 8 mile map and 16 mile map are in the greatest demand and contain a wealth of information which is useful to industrialists and the general public.

Fringe Area Booklet of Central Alberta

The Lands Branch, in conjunction with the Research Council of Alberta, issued a very interesting and informative booklet of the Rocky Mountain House, St. Ann, Brule, Fort Assiniboine, Saulteux, Tawatinaw, Victoria, Saddle Lake and Lac La Biche Areas. This division designed and draughted 10 maps of these areas including a key map.

Upon each map was shown:

1. Patented and settled areas in red.
2. Areas withdrawn from settlement in green.
3. Public lands available for settlement in white.

Five thousand copies of this booklet were published for which there was a steady demand.

Peace River Booklet

There also is a heavy demand for this booklet for which this division designed 10 maps and it was necessary to order a rerun of 5,000 copies.

These booklets are given to the general public free of charge upon application.

4 Mile Map Civil Defence

A somewhat large mapping assignment was undertaken for the Provincial Civil Defence resulting in a map of the province upon a scale of 1 inch to 4 miles.

This map was reproduced on film in 3 strips, each strip measuring 6 feet by 9 feet and when joined together the map measures approximately 9 feet by 18 feet. Negatives of the different strips of the map are on file in the division and copies are available to the various departments throughout the government.

This map shows the main highways, counties, municipal districts and improvement districts.

Certain changes in boundary lines are being considered at the present time by the Co-Terminous Boundary Commission and until this work is done the map cannot be completed.

Base Map

A new tracing of the base map of Alberta was completed and 2,000 lithographed copies were obtained. Twenty-five copies of this map were also obtained on linen. These linen copies are used for many purposes, particularly in the Forestry Branch where it is necessary to amend the boundaries of the forest ranger and district areas, from time to time, for practical administration purposes. These amendments can be readily made upon the linen copies, and ozalid reproductions are then made and supplied to the forestry personnel in the office and in the field.

Map Showing Lands Open and Closed to Settlement

Owing to the heavy demand for our map of the Province of Alberta showing the areas open and closed to settlement it was necessary to order an additional 2,000 copies. This map is given to the general public free of charge.

PHOTOSTAT MACHINES

A new photostat machine, Model No. 4, motor driven, was installed in August, 1953. This model was designed to give greater production and speed by means of an electrically operated mechanism for developing and fixing photostatic copies. The machine is equipped with cycle control for electrically winding down and cutting off the prints. These operations cut down considerably the manual work and it is estimated that this new model is three to four times faster than our old machine.

Our old machine has been in operation for almost 15 years and has given excellent service, so much so that it is being kept as a "stand by" and has been used for special jobs when the volume of photostat work for our own and other various government departments is heavy.

The amount of work turned out by these two machines has been on the increase and appreciation has been expressed from other government departments of the speed and promptness with which photostatic copies are made not only of plans but of legal documents and various types of printed matter.

OZALID MACHINE

This machine is running at full capacity and the demand for copies of our new planimetric maps produced from our aerial photography continues. A steady volume of work is also turned out for the Forestry Branch and also oil field maps etc., for the Department of Mines and Minerals.

During the year the volume of work passing through this division reached, if not surpassed, the activity of last year. It was particularly noticeable in the summer vacation time when it was important, and necessary, to stagger vacation periods. There is no doubt that the newly established privilege authorized in July 1953, permitting the splitting of vacations into two or three periods, certainly was a factor in helping to cope with the work. All through the summer the general industrial upsurge within the province was evident.

The newly established photographic laboratory maintained a steady tempo to meet the heavy demand for aerial photographs required by industrialists, the Forestry Branch, Lands Branch and other government departments, so much so that, as already pointed out, overtime was authorized.

Maps, plans, sketches and legal descriptions were draughted and areas calculated for the department in the disposal of our natural resources. This type of work maintained a steady volume and once again it can be reported that the fiscal year ending March 31st, 1954, was a very active year.

It is a pleasure to herein express appreciation to the staff for rendering a courteous and efficient service to the various divisions within our own department, to other government departments and the general public.

Accounting Division

REPORT OF THE ADMINISTRATIVE ACCOUNTANT, A. McCALLUM

Gross receipts from all sources amounted to \$6,740,444.83 for the year ending March 31, 1954. Total refunds amounted to \$612,785.35, leaving total net receipts from all sources at \$6,127,659.48.

Net revenue on income account amounted to \$4,710,300.90, a decrease of \$541,201.75 from the previous year. Main increases and decreases are as follows:

Account	Increase \$	Decrease \$
Fishing Licenses _____	5,436.35	_____
Fisheries Royalty _____	6,316.21	_____
Game Licenses _____	_____	39,691.31
Fur Tax _____	3,615.94	_____
Grazing Leases, Permits, etc. _____	_____	214,346.39
Homestead Leases _____	48,689.08	_____
Public Land Sales Interest _____	2,085.50	_____
Cultivation Leases, Permits, etc. _____	6,925.53	_____
Lands Miscellaneous _____	19,330.05	_____
Timber Fees, Rentals, Dues, etc. _____	_____	246,774.78
School Land Leases, Berths, Permits, etc. _____	_____	144,909.62
East Slope Surface Rights _____	_____	114,360.01
Administration Sundry _____	6,619.20	_____
Maps and Plans _____	11,357.21	_____
Restoration of Survey Monuments _____	_____	1,685.40
Photographic Survey _____	4,292.56	_____
Dominion Government Reimbursements		
re: Forest Survey _____	35,636.12	_____
Dominion - Provincial Agreement		
re: Air Weapons Range _____	64,899.95	_____
Miscellaneous _____	5,362.06	_____
Net Revenue Decrease _____	541,201.75	_____
	\$ 761,767.51	\$ 761,767.51

COMMENTS ON REVENUE AND EXPENDITURE

REVENUE

Fish and Game

The public interest in the sport of fishing and hunting within our Province continues to show that more and more of our people are getting out and enjoying this favorite sport. Fishing Licenses sold for the year were 34,629; revenue derived \$85,936.60. In like manner Game Licenses sold were 74,797 from which revenue to the Department amounted to \$243,166.41. Fur Tax collections for the year under review amounted to \$90,982.58.

Lands and Grazing

The opening up of more Crown lands for settlement purposes together with the continued activity in the search for oil, and also that crops in the northern section of the province were better than average, revenues to the Department from these sources continue to show an increase over the previous year. The decrease in revenue from grazing sources is due, mainly, to reduction in the rate of dues by approximately one-third over the previous year.

As provided under "The Grazing Lease Taxation Act", "The Crown Cultivation Leases Act" and "The Tax Recovery Act", refunds to the taxing authority amounted to \$392,342.60.

The number of cheques received from the Canadian Wheat Board in respect of price adjustment in connection with wheat, oats and barley number approximately 4,500.

Parks

Revenue held in trust from Provincial Parks stood at \$40,336.27 as of March 31, 1954.

Timber

The decline in timber revenues, including the East Slope, is attributed to a very small decline in the annual production of lumber. Although the Department has offered numerous timber berths for sale in the year under review, and received bids over and above the regular dues assessed, the industry would appear to be reaching a levelling off period in the immediate future. Survey of the province's timber assets is nearing completion and in accordance with the Dominion - Provincial agreement the province was reimbursed \$35,636.12.

Miscellaneous

In accordance with the great deal of interest and activity taking place in search for new oil and gas fields together with the demand for new settlement and timber areas, the sale of maps, prints, etc., shows an ever increasing volume.

Accounts receivable at March 31, 1954, stood at 17,812 active accounts together with some 1100 fish and game vendors accounts. Total number of cash entries were 56,520 for which 52,377 receipts and permits were issued. The number of refunds processed was 5,789, amounting to \$612,785.35. During the year under review, this division acquired two new National Cash Register Company bookkeeping machines, which together with the introduction of a McBee Keysort System, will improve the overall efficiency in maintaining our accounts receivable records. Staff turnover continues to be a problem, but not to the same degree as in former years.

EXPENDITURE

The total expenditure on income account was \$3,139,049.37. Salaries accounted for \$1,366,223.85 of this amount. In carrying out the province's campaign to combat the Rabies outbreak and the destruction

of pests, the amount of \$321,746.03 was disbursed. Firefighting costs for the year amounted to \$186,354.00.

Capital expenditure in respect of the Eastern Rockies Forest Conservation agreement amount to \$730,394.35. Accumulative provincial capital reimbursements as provided by the agreement from Canada amounted to \$5,109,519.65 as at March 31, 1954.

Maintenance expenditure for East Slope Reserves for the year under review was \$261,430.22. Accumulative maintenance expenditure from April 1, 1948, to March 31, 1954, amounted to \$1,265,374.45.

In connection with the development and maintenance of our provincial Parks an amount of \$91,433.76 was disbursed.

The policy of providing a six-weeks forest training school course at which some twenty-five trainees attend was continued for the year under review, and expenditure amounting to \$7,641.83 was incurred.

Capital expenditure shows disbursements of \$13,482.61 in connection with the Lassiter Agreement, \$118,327.80 for Aerial Photography and Forest Survey Agreement, and \$257,225.96 representing the purchase price of some 46,834.92 acres of land from the Hudson's Bay Company.

INDEX OF STATEMENTS

- A. Statement of Receipts from all Sources.
- B. Statement of Receipts - Income Account.
- C. Statement of Receipts - Capital Account.
- D. Statement of Receipts - School Lands.
- E. Statement of Expenditure for the year ending March 31, 1954.
- F. Statement of Net Receipts by Branches.
- G. Statement of Disbursements by Branches.
- H. Alberta School Land Trust Fund.
- I. Alberta School Land Sales - Revenue Account.

Statement ASTATEMENT OF RECEIPTS FROM ALL SOURCESFrom April 1, 1953 to March 31, 1954

	Gross Receipts	Refunds	Net Receipts
	\$	\$	\$
Income Account	5,036,107.82	325,806.92	4,710,300.90
Capital Account	296,440.87	4,549.82	291,891.05
Reimbursement of Previous Year's Expenditure	1,097.50	—	1,097.50
School Land Trust Fund	340,510.74	431.64	340,079.10
Timber Deposits Trust	389,616.32	27,443.50	362,172.82
Homesteader's Compensation Trust	3,152.95	288.95	2,864.00
East Slope Road Toll Trust	5,278.79	470.00	4,808.79
Parks Board Trust	16,519.72	74.40	16,445.32
Unapplied Receipts Carried Forward:			
Suspense	302,540.07	241,991.81	60,548.26
Improvements	19,405.84	11,728.31	7,677.53
Land Patent Cultivation Crop Share	23,000.00	—	23,000.00
Land Patent Homestead Crop Share	100,000.00	—	100,000.00
School Land Cultivation Crop Share	90,000.00	—	90,000.00
Grazing Rentals, Fees, Etc.	95,274.21	—	95,274.21
School Land Grazing Permits, Etc.	21,500.00	—	21,500.00
Total	\$ 6,740,444.83	\$ 612,785.35	\$ 6,127,659.48

Statement B

STATEMENT OF RECEIPTS - INCOME ACCOUNT

From April 1, 1953 to March 31, 1954

	Gross Receipts	Refunds	Net Receipts
	\$	\$	\$
<u>Fisheries Account</u>			
Fishing Licenses	86,210.33	273.73	85,936.60
Fisheries Miscellaneous	128.72	—	128.72
Fisheries Royalty	23,860.61	—	23,860.61
Total	110,199.66	273.73	109,925.93
<u>Game Account</u>			
Game Licenses	244,386.84	1,220.43	243,166.41
Fur Tax	92,528.20	1,545.62	90,982.58
Game Miscellaneous	1,224.35	64.06	1,160.29
Total	338,139.39	2,830.11	335,309.28
<u>Lands and Grazing</u>			
Grazing Leases, Permits, Etc.	213,041.79	23,473.05	189,568.74
Hay Permits, Fees, Etc.	4,652.94	884.30	3,768.64
Homestead Leases	217,393.18	91,418.43	125,974.75
Public Land Sales Interest	9,000.98	—	9,000.98
Cultivation Leases, Permits, Etc.	65,325.68	21,470.88	43,854.80
Miscellaneous Leases	97,040.66	2,232.09	94,808.57
Land Patent Miscellaneous	63,159.83	3,758.36	59,401.47
Total	669,615.06	143,237.11	526,377.95
<u>Timber</u>			
Timber Fees, Rental, Dues, Etc.	2,780,402.59	33,704.85	2,746,697.74
<u>School Lands</u>			
School Land Sales Interest	61,557.23	115.21	61,442.02
School Land Leases, Berths, Permits	464,389.68	141,716.33	322,673.35
Total	525,946.91	141,831.54	384,115.37
<u>Unearned Increment Tax</u>			
	64.05	—	64.05
<u>East Slope Surface Rights Revenue</u>			
	356,207.80	2,628.28	353,579.52
<u>Miscellaneous</u>			
Administration Sundry	31,421.90	1,107.62	30,314.28
Maps and Plans	39,567.18	—	39,567.18
Restoration of Survey Monuments	6,800.49	—	6,800.49
Photographic Survey	37,860.41	150.68	37,709.73
Reimbursement from Dominion	68,661.20	—	68,661.20
Government Re: Forest Inventory	—	—	—
Sale of Equipment	2,559.44	43.00	2,516.44
Sale of Automobiles	3,761.79	—	3,761.79
Dominion - Provincial Agreement re: Air Weapons Range	64,899.95	—	64,899.95
Total	255,532.36	1,301.30	254,231.06
TOTAL INCOME ACCOUNT	\$ 5,036,107.82	\$ 325,806.92	\$ 4,710,300.90
(Carried forward to Statement A)			

Statement CSTATEMENT OF RECEIPTS - CAPITAL ACCOUNTFrom April 1, 1953 to March 31, 1954

	Gross Receipts	Refunds	Net Receipts
	\$	\$	\$
Land Sales Principal	159,240.07	4,450.44	154,789.63
Clearing and Breaking Project Seed Grain Principal	146.41	—	146.41
Clearing and Breaking Project Crop Share	41,283.77	99.38	41,184.39
Reimbursement from Dominion Government re: Forest Inventory	95,770.62	—	95,770.62
Total	\$296,440.87	\$4,549.82	\$291,891.05

Statement DSTATEMENT OF RECEIPTS - SCHOOL LANDSFrom April 1, 1953 to March 31, 1954

	Gross Receipts	Refunds	Net Revenue
	\$	\$	\$
<u>INCOME ACCOUNT</u>			
School Land Sales Interest	61,557.23	115.21	61,442.02
School Land Grazing Lease, Rentals, Etc.	39,559.12	4,786.73	34,682.39
School Land Hay Permits, Fees, Dues	997.66	348.50	649.16
School Land Cultivation Rentals, Fees, Etc.	319,241.27	133,519.12	185,722.15
School Land Timber Rentals, Fees, Dues, Etc.	86,381.21	2,518.68	83,862.53
School Land Miscellaneous Leases	7,658.85	316.05	7,342.80
School Land Miscellaneous Revenue	10,551.57	137.25	10,414.32
<u>TRUST ACCOUNT</u>			
School Lands Sales Principal	340,510.74	431.64	340,079.10
Total	\$866,457.65	\$142,263.18	\$724,194.47

GOVERNMENT OF THE PROVINCE OF ALBERTA
LANDS AND FORESTS DEPARTMENT
EXPENDITURE CLASSIFIED BY APPROPRIATIONS AND CHARACTER
FOR THE YEAR ENDED MARCH 31, 1954
INCOME ACCOUNT

Service	1901 Minister's Office	1902 Deputy Minister's Office	1903 Accounts Division	1904 Advisory Board	1905 Destruction of Pests	1906 Eastern Rockies Forest Conservation	1907 Fisheries Division	1909 Forest Protection and Timber Operations Division	1910 Forest Inventory Division	1911 Forest and Prairie Fires Suppression Act	1912 Game Division	1913 Eastern Rockies Forest Conservation Board	1914 Lands Division	1916 Radio Communications	1917 Technical Division	1918 Registration Division	1919 Postage	1920 Printing, Stationery and Office Supplies	1921 Forestry Training School	1922 Provincial Parks	Totals
Advertising	\$	\$	\$	\$	\$	\$ 1,016.87	\$ 2.40	\$ 2,131.17	\$ 8.40	\$	\$	\$	\$ 3,628.43	\$ 6,588.08	\$ 1,792.96	\$	\$	\$	\$	\$	\$ 6,787.27
Automobiles	1,547.95					17,453.05	8,747.70	27,950.73	6,298.65		1,916.00		3,947.65							132.55	76,373.32
Board	3.00					51.55	668.92	3,608.75	3,713.12			57,804.84							2,625.59		68,472.77
Books and binding							5.09	5,101.69	81.73				14.00		17,960.39	17.98			56.10	5.00	23,244.98
Bounties for destruction of pests					321,746.03																321,746.03
Buildings and sites								550.00												9,939.85	10,489.85
Cinema and photographic supplies															6,846.25						6,846.25
Clothing						4,681.40	2,770.05	9,205.30			2,465.70									240.75	19,382.60
Construction contracts						303.60	3,950.47	38,388.51			15,157.52				19.40						78,657.11
Equipment	2.88	753.56	11,756.29			458.68	9,115.01	83,267.01	4,105.61		1,379.58		963.86	28,591.01	9,476.57	775.59			961.40	11,590.26	163,197.31
Feed and seed							3,971.50	293.93			6,107.91		117.65							715.71	11,206.70
Fees and commissions						235.70	67.02	211.52			70.02		34.06		9.90					162.00	790.22
Freight, express and cartage	3.75	467.87	1.85			677.47	1,181.56	14,959.26	4,015.19		658.43		264.77	970.38	1,391.53	17.86			17.48	1,194.80	25,822.20
Heating, lighting and power						3,151.61	969.64	2,503.33	22.03		1,108.44			991.14					227.62	592.40	9,633.73
Laundry and cleaning							61.90	43.40	45.50						57.65				50.55		259.00
Miscellaneous expenses and supplies			19.85	90.32		1,035.08	2,315.92	3,366.62	232.63		1,726.92		10.00	5,792.57	1,662.40	15.56			342.96	190.81	16,801.64
Newspapers and periodicals	15.25	14.00				73	11.86	9.19			13.68		4.00	16.00	4.00				15.00	2.00	129.18
Postage	20.00					718.00	160.00	690.22			147.00		124.34	80.00			12,636.27			32.00	14,622.83
Printing, stationery and office supplies	160.59					747.22	7.50	2,636.04			7.50		3,152.97		1,129.22	9.35		42,439.49	110.01		50,399.89
Rates, rentals and insurance	114.66	208.07				1,936.20	1,402.61	2,765.67	464.71		1,436.37		12,078.76	4,411.56	2,657.65	580.86			7.00	547.59	28,611.71
Repairs and replacements	390.70	313.43	152.25			24,479.25	11,532.83	54,033.82	1,740.89		8,865.63		5,548.35	11,266.69	3,038.70	105.41			200.37	16,457.09	138,125.41
Salaries	11,558.90	20,879.52	98,414.97			169,312.53	83,011.09	440,279.55	51,180.89		74,988.65	4,074.82	190,174.14	54,299.99	90,202.15	65,325.08				12,521.57	1,366,223.85
Special services															19,477.73						19,477.73
Surveys							10.00								87,589.40						87,599.40
Telegrams and telephones	547.98	137.06	194.35			713.55	958.46	2,279.19	143.84		907.71		1,113.63	48.52	198.44	5.41				96.69	7,344.83
Travelling expenses	446.90	738.70	304.97	842.81		16,280.88	32,672.77	76,930.96	3,921.50		38,341.53	131.45	34,259.03	5,553.43	9,015.11	186.18				2,830.73	223,637.60
Wages						18,176.85	8,992.33	36,106.21	14,421.93	186,354.00	18,895.82		2,179.20	3,188.04	59,677.53				1,847.10	13,324.95	363,163.96
TOTAL: Income Account	\$ 14,812.56	\$ 23,512.21	\$ 110,844.53	\$ 933.13	\$ 321,746.03	\$ 261,430.22	\$ 172,586.63	\$ 807,312.07	\$ 90,396.64	\$ 186,354.00	\$ 174,194.41	\$ 62,011.11	\$ 257,614.84	\$ 121,797.41	\$ 312,274.48	\$ 67,077.75	\$ 12,636.27	\$ 42,439.49	\$ 7,641.83	\$ 91,433.76	\$3,139,049.37

CAPITAL ACCOUNT				
Service	1980 Land Settlement, Clearing and Breaking Land	1982 Aerial Photography and Forest Inventory	S.W. 11/53-54 Purchase of Hudson's Bay Co. Lands Situated within the Province	Totals
Clearing and breaking land	\$ 12,136.33	\$	\$	\$ 12,136.33
Land for settlement purposes			118,327.80	118,327.80
Salaries	1,346.28			1,346.28
Surveys		257,225.96		257,225.96
TOTAL: Capital Account	\$ 13,482.61	\$257,225.96	\$118,327.80	\$389,036.37

Statement FSTATEMENT OF NET RECEIPTS BY BRANCHESFrom April 1, 1951 to March 31, 1954

	Fiscal Year Ending			
	March 31/51	March 31/52	March 31/53	March 31/54
	\$	\$	\$	\$
<u>INCOME ACCOUNT</u>				
Fisheries Branch	78,015.34	91,544.27	98,183.39	109,925.93
Game Branch	311,207.23	324,890.60	371,949.93	335,309.28
Lands and Grazing Branch	480,481.42	714,989.88	663,717.82	526,377.95
Timber Branch	2,029,901.62	2,227,043.96	2,993,472.52	2,746,697.74
Unearned Increment Tax	1,293.28	1,722.65	311.05	64.05
School Lands	263,395.38	379,955.03	529,085.22	384,115.37
East Slope Surface Rights	185,138.18	224,688.37	467,939.53	353,579.52
Miscellaneous	51,932.72	98,309.76	126,843.19	254,231.06
<u>CAPITAL ACCOUNT</u>				
Land Sales Principal	110,547.72	72,095.72	89,631.29	154,789.63
Clearing and Breaking Project - seed grain principal	127.00	32.86	187.50	146.41
Clearing and Breaking Project - crop share	18,635.54	23,492.64	41,974.73	41,184.39
Reimbursement from Dominion Government re: Forest Inventory	—	—	132,974.92	95,770.62
Reimbursement from Dominion Government re: Eastern Rockies	—	133.37	—	—
Transferred to other Departments	1,212.05	8,498.73	3,183.91	1,097.50
School Land Trust Fund	318,620.30	387,306.46	366,000.98	340,079.10
Timber Deposits Trust	—	—	1,023,844.76	362,172.82
Homesteader's Compensation Trust	242.05	385.05	1,235.31	2,864.00
East Slope Road Tolls Trust	—	138.46	1,290.64	4,808.79
Parks Board Trust	—	10,594.29	17,854.55	16,445.32
Unapplied Receipts Carried Forward	359,581.06	1,248,356.42	356,400.88	398,000.00
Total	\$ 4,210,330.89	5,814,178.52	7,286,082.12	6,127,659.48

Statement G

STATEMENT OF DISBURSEMENTS BY BRANCHES

From April 1, 1951 to March 31, 1954

	Fiscal Year Ending			
	March 31/51	March 31/52	March 31/53	March 31/54
	\$	\$	\$	\$
INCOME				
1901 Minister's Office	6,255.08	10,476.46	9,214.65	14,812.56
1902 Deputy Minister's Office	35,021.83	40,774.62	26,995.43	23,512.21
1903 Accounts Division	82,447.23	91,180.82	96,323.84	110,844.53
1904 Advisory Board	899.59	949.27	688.65	933.13
1905 Destruction of Pests	39,321.05	19,147.85	84,390.94	321,746.03
1906 Eastern Rockies Conservation	185,004.81	224,688.37	240,715.73	261,430.22
1907 Fisheries Division	129,899.37	139,146.59	156,892.88	172,586.63
1909 Forest Protection & Timber Operation	483,882.88	561,585.56	642,686.46	807,312.07
1910 Forest Survey Division	29,784.80	45,437.14	55,511.74	90,396.64
1911 Forest & Prairie Fires Suppression Act	260,052.39	28,071.74	66,120.05	186,354.00
1912 Game Division	105,316.46	117,909.72	176,382.27	174,194.41
1913 Eastern Rockies Forest Conservation Board	8,242.00	8,535.75	63,349.37	62,011.11
1914 Lands Division	198,220.23	222,834.38	244,509.90	257,614.84
1915 Parks Division	14,385.11			
1916 Radio Communication	90,420.89	110,115.50	84,414.01	121,797.41
1917 Surveys Division	183,122.10	291,469.95	340,549.73	312,274.48
1918 Registration Division	60,207.25	72,943.02	63,995.68	67,077.75
1919 Postage	11,092.92	12,708.15	12,501.85	12,636.27
1920 Printing Stationery & Office Supplies		31,402.37	32,227.84	42,439.49
1921 Forestry Training School		7,612.81	10,717.05	7,641.83
1922 Provincial Parks		47,958.04	102,028.62	91,433.76
SW 33/50-51 Medical Examinations of Forestry Officers	115.40			
SW 43-63/51-52				
SW 2 & 25/52-53 Cost of Survey of Department by Stevenson Kellogg Ltd.		14,000.00	8,297.96	
Total Income Account	\$1,923,691.39	2,098,948.11	2,518,514.65	3,139,049.37
CAPITAL				
1980 Land Settlement Clearing & Breaking	368,747.24	164,733.26	188,513.59	13,482.61
1981 Eastern Rockies Forest Conservation	133.37			
1982 Aerial Photography & Forest Inventory	386,287.10	405,703.29	306,320.46	257,225.96
SW 87/51-52 Purchase of Land for Vermillion River Prov. Park		27,511.19		
SW 11/53-54 Purchase of Hudson's Bay Co. Lands Situated within the Province				118,327.80
Total Capital Account	\$755,167.71	\$597,947.74	\$494,834.05	\$389,036.37

Statement H

ALBERTA SCHOOL LAND TRUST FUND

Balance Sheet - March 31, 1954

As at March 31, 1954, the fund amounted to \$15,184,005.28 made up as follows:

Cash _____	\$ 394,689.87
Accounts Receivable _____	103,267.13
Debentures of the Dominion of Canada:	
(a) Issued in the sum of standing to the credit of the fund when the natural resources were transferred to the Province in October, 1930. _____	\$ 9,564,569.20
(b) Purchased by the Province since October 1, 1930, from payments of principal on school land sales, book value. _____	\$ 3,372,643.19
	<u>\$ 12,937,212.39</u>

Unpaid principal on school land sales

(a) Not due _____	\$ 1,663,320.10
(b) Due or in arrears _____	\$ 85,515.79
	<u>\$ 1,748,835.89</u>
	<u>\$ 15,184,005.28</u>

Statement I

ALBERTA SCHOOL LAND SALES - REVENUE ACCOUNT

From April 1, 1953 to March 31, 1954

Arrears of Interest as of March 31, 1953	\$ 15,787.43	
Interest Charges _____	87,232.97	
Interest Revenue _____		\$ 61,442.02
Interest Written Off (Cancelled Sales) _____		\$ 703.36
Arrears of Interest as of March 31, 1954 _____		\$ 40,875.02
	<u>\$ 103,020.40</u>	<u>\$ 103,020.40</u>

Registration Division

REPORT OF THE REGISTRAR.

C. B. KENWAY

Incoming mail, which is a good criterion of work flowing through the department, was up 2% from last year, but still 10% under the previous year. It is interesting to note that in the last two years incoming mail has been at its lowest point in the past twelve years. Another good indicator of the routine flow of work is the number of entries in, and deletions from, the township registers. These show very little difference from last year, as shown by the table at the end of this section.

Slackening off in the amount of routine work provided an excellent opportunity to make some very necessary changes and it is hoped that these changes can be completed before there is any great upswing in the amount of routine work. Around the beginning of June a small staff started on the colossal job of changing the land files from a numerical system to one of direct filing by land description. Good progress was made in the beginning, with nearly all files west of the 4th Meridian being changed by Christmas. By this time, we were entering our busiest period of the year, and as none of the branches had made any attempt at that time to change their records, much time was lost in back-checking to fulfil their requests, with the result that few files were changed in the 5th and 6th meridians by the end of the fiscal year.

Considerable juggling of filing cabinets and the splitting of large files took place as a natural development of the change-over. At the same time license of occupation files were set up as a separate group and handled in the same manner as timber and grazing.

To aggravate conditions at this particular time, the Eastern Rockies Forest Conservation Board's records and files were turned over to this division before Christmas. All dispositions had to be checked and entered in the township registers, while files had to be indexed and plotted.

At the end of December, the Department of Municipal Affairs relinquished the administration of Bow West from the Special Areas. In the interval before this department assumed the administration, in February, a backlog of work had piled up that had to be cleared when the records and files were received later in the month. Much checking and back-checking was required before entries could be made in the records, and it will be some time before discrepancies are finally straightened out.

The work of placing township plans, which show the dispositions, in the registers, still continues as a pick-up job. Also a start was made on the amalgamation of the school and public land registers. Already many favourable comments have been received on the amalgamation, as it has been a continual source of errors and annoyance to all who have had to use the registers.

More standings of land have been supplied to oil companies this year than any year in the past. This was particularly noticeable in the Pembina-Drayton Valley area, where the discovery of oil instilled in many a burning desire to go homesteading.

On January 11, 1954, the Registration Division took over the cash cage on the fifth floor. The cash and mail cage are now one, with all monies being received through a central point. The amalgamation resulted in two full-time clerks doing the work formerly done by three. The change has worked very satisfactorily to date.

The microfilming of files still continues, with 160 films being exposed in the past year, against 61 for the previous year. Included in the 160 films were 26 for the Department of Mines and Minerals and 40 for the Department of Education.

If, on looking back over the work accomplished during the year, the writer should feel a little proud of each and every member of the staff, it is understandable and excusable. The staff did a terrific job in keeping up with the daily work, making changes, checking and back-checking, and at the same time retaining a sense of balance when it was needed most. That their efforts have not gone unnoticed is evident by the favourable comments that were expressed throughout the year.

SUMMARY OF INCOMING AND OUTGOING MAIL BY NUMBER OF PIECES FOR THE PAST FOUR YEARS

Year	Incoming #	Outgoing	Total
1950-51	121, 873	220, 041 *	341, 914
1951-52	119, 154	230, 376 *	349, 530
1952-53	104, 965	174, 388 #	279, 530
1953-54	107, 268	189, 123 #	296, 391

Actual mail cage count

* Total count as reported by branches

A TWO-YEAR COMPARISON OF SOME OF THE PRINCIPAL
RECORD ENTRIES

Item	1952-53	1953-54	Difference
Assignments registered	294	304	10
Notifications for Patent	434	521	87
Timber berth and special timber permit applications	744	718	-26
Forestry reservations	602	594	- 8
Accrued area leases entered	75	68	- 7
Accrued area leases cancelled	58	64	6
Homestead leases (civilian) entered	869	747	-122
Homestead leases (civilian) cancelled	413	505	92
Homestead leases (veteran) entered	130	112	-18
Homestead leases (veteran) cancelled	105	101	- 4
Licenses of occupation entered	59	60	1
Licenses of occupation cancelled	18	23	5
Miscellaneous leases entered	45	48	3
Miscellaneous leases cancelled	19	33	14
Cultivation leases entered	39	61	22
Cultivation leases cancelled	43	38	- 5
Public land sales entered	230	363	133
Public Land sales cancelled	8	5	- 3
Road allowance leases entered	207	186	-21
Road allowance leases cancelled	29	29	0
Grazing leases entered	52	99	47
Grazing leases cancelled	68	37	-31
School land sales entered	212	191	-21
School land sales cancelled	10	6	- 4
School land miscellaneous leases entered	9	8	- 1
School land miscellaneous leases cancelled	5	8	3
School land licenses of occupation entered	12	11	- 1
School land licenses of occupation cancelled	2	1	- 1
School land cultivation leases entered	133	55	-78
School land cultivation leases cancelled	168	72	-96
	5092	5068	-24

Provincial Parks Administration

REPORT OF THE PROVINCIAL PARKS BOARD

V. A. WOOD, *Chairman*

T. W. DALKIN, *Board Member*

During the fiscal year further development was carried out in the provincial parks to increase their accommodation and usefulness for recreation. The provincial parks are becoming more and more popular as inhabitants of the province become conscious of the facilities provided. Experience in the past few years has shown that the need for recreational facilities has been increasing steadily and that when the basic facilities for a park are provided the public quickly makes use of them. This is especially true of recreational areas in the vicinity of Calgary and Edmonton. To meet the need for more recreational facilities lands owned by the government, which have possibilities for development as future parks, are reserved for that purpose. In addition the parks board is investigating possible areas around Edmonton and Calgary which might be developed as provincial parks.

During the summer of 1953 Mr. J. M. Wardle, consulting engineer, who has had considerable planning experience with the Canadian national parks, was employed to make a cursory survey and to prepare a report of the development required to establish suitable provincial parks at the Vermilion, Little Bow and Cypress Hills Parks. While recommendations made in his report, which was received in December, 1953, will guide the future development not only for these three parks but for other provincial parks, it was found that in general the policy which has been followed in the past agrees with Mr. Wardle's recommendations. Most of the specific recommendations made in the report for the three parks mentioned are now being carried out.

During the past year much stress has been placed on co-operation between the province and residents of the area served by the park. Such local residents, under direction of the local park committee, have contributed much to the parks by way of donated labour and other services. The provincial parks board is continuing to emphasize this co-operative idea as much as possible in its dealings with the various committees.

One new park, Pembina River Provincial Park, which is located on the Pembina River, 60 miles west of Edmonton, adjacent to the Jasper highway, was established by order-in-council.

Several requests for new parks were submitted to the board and the areas suggested were found unsuitable or are still under consideration.

By a ministerial order dated June 15th, 1953, fees and other charges within provincial parks were established.

Due to the continued use of several of the parks by a large number of people it was found necessary to employ caretakers at nine of the

parks to maintain the playground equipment and buildings, ensure cleanliness of sanitary facilities and to keep the beaches and picnic areas in a clean and tidy condition.

The following is a brief summary of the main development and activities carried on at the provincial parks during the past fiscal year:

Cypress Hills Park - Three miles of new roads were completed and four miles of existing roads were improved. A new picnic shelter was constructed to ease the congestion of the picnic area. Twenty-five miles of forestry telephone lines were repaired and maintained. Plans and specifications for a townsite water supply and a survey of a new block of lots were completed. This park covers 77 square miles and has many unique features, especially in regard to geological formation and plant and insect life, that makes it attractive to both local residents and tourists. A full-time park warden and assistant park warden are employed and also casual labourers during the summer months.

During the summer months a forest inventory was conducted by the forest surveys branch to assist the parks board in establishing a forest management plan for the timber found on this park.

Beauvais Lake Park - One-half mile of road was constructed and graded to a new camping area. The camp grounds were improved and a picnic shelter constructed.

This park has a number of privately owned cottages and one of the main attractions is the good fishing.

Crimson Lake Park - One-half mile of road was completed within the townsite. An extension was added to the pier and a new storage shed was constructed to house the park tractor and equipment. This park is becoming more and more popular for summer cottages and it has been necessary during the past few years to extend the subdivision and make more lots available. A permanent caretaker is employed at this park.

Dilberry Lake Park - Grading and claying was undertaken on two and one-half miles of park road to improve the approach to the lake and considerable work was done to improve the natural sand beach. This park is patronized mostly by local residents. A caretaker is employed for the summer months.

Garner Lake Park - Construction of a rock-filled pier and two Texas gates were undertaken. A new fence was completed on the south side of the park. There is a good ball diamond at this park which is enjoyed by local community teams. A caretaker is employed during the summer months.

Kinbrook Island Park - A new machine and storage shed was completed to house the park tractor and equipment. Five hundred new trees were planted at the park by the Kinsmen Club of Brooks. There has been a demand for summer cottage sites at this park and a small subdivision has been surveyed and lots made available. A caretaker is employed during the summer months.



A view of the beach at Crimson Lake Provincial Park showing the pier, picnic shelters and some of the playground equipment.



A few of the facilities enjoyed by the public at Saskatoon Island Provincial Park.

Pembina River Park - One-half mile of road was constructed to connect the two picnic areas and a new picnic shelter was erected. This is a new park and initial improvements were undertaken late in the fall of 1953.

Saskatoon Island Park - A new floating pier which can be removed from the water each fall to prevent ice damage was constructed at this park. The park roads were gravelled to enable the public to use them under all weather conditions. Each year, as more improvements are made, this park receives a larger number of visitors, mainly from the Peace River area. There are no privately owned cottages at this park but there are four cottages owned by the parks board which are made available to the public at a nominal rental. A part time caretaker is employed at this park.

Taber Park - The spring flood waters of the Old Man River inundated this park in June and with the recession of the water it was found necessary to undertake considerable reclamation work to level the silt deposited throughout the park. A new picnic shelter was erected to replace the one destroyed by the flood. New fences and Texas gates were constructed.

Vermilion Park - The purchase of land for the formation of this park was completed. Three miles of roads were cut through the brush along the river and grading and gravelling were undertaken on two miles of this road. Sand was hauled and placed both in the water and on the shore to start the development of a bathing beach. Two picnic shelters and two bath houses were completed. There is a great deal of local enthusiasm and support from the residents of the Vermilion area, who have assisted materially in the organization and development of this park.

In addition to the foregoing improvements there was a considerable amount of maintenance and repair work carried out at the other provincial parks.

There were 89 park leases and 115 permits in effect on the first day of April, 1953. During this fiscal year the permits were either cancelled due to the fact that no buildings had been erected or they were converted to leases. It is unnecessary to issue further permits pending building on townsite lots, as the present park lease contains a provision that the lease may be cancelled if a satisfactory building is not erected within two years. One hundred and twelve leases were issued and nine leases were cancelled during the fiscal year with the result that there were one hundred and ninety-two leases in effect on the 31st day of March, 1954.

The following is a summary of the revenue and expenditures for the fiscal year:

- | | |
|---|--------------|
| 1. Amount appropriated for provincial park purposes | \$ 80,580.00 |
|---|--------------|

2. Revenue received from each park:

Beauvais Lake	\$ 351.70
Crimson Lake	259.79
Cypress Hills	15,408.26
Dilberry Lake	95.00
Garner	25.00
Ghost River Park	36.57
Gooseberry Lake	60.00
Park Lake	35.00
Saskatoon Island	148.00
Vermilion	1.00
Writing-on-Stone	25.00
Total	\$ 16,445.32

3. Expenditures for each park:

Aspen Beach	\$ 277.39
Buffalo Lake	358.60
Crimson Lake	1,463.19
Dilberry Lake	1,939.25
Beauvais Lake	2,302.97
Cypress Hills	29,861.21
Gaetz Lake Sanctuary	58.87
Garner Lake	3,536.85
Gooseberry Lake	537.79
Kinbrook Island	4,316.33
Little Bow	2,095.00
Ma-Me-O Beach	83.82
Park Lake	1,030.39
Pembina River	4,617.26
Red Lodge	2,513.28
Rochon Sands	455.72
Saskatoon Island	2,112.01
Sylvan Lake	4,553.20
Taber	4,005.03
Travers Dam	575.99
Vermilion River	10,407.40
Writing-on-Stone	35.57
Total	\$ 77,137.12

4. General expenses such as office, salaries, travelling, etc.

Salaries	\$ 12,521.57
Travelling Expenses and General	1,775.07
Total	\$ 14,296.64

PERSONNEL

Of Department of Lands and Forests
by Branches

1. MINISTER'S OFFICE	4a. Forest Protection Branch
1 Minister	1 Superintendent of Protection
1 Secretary	1 Asst. Superintendent of Protection
<u>2</u>	6 Forest Superintendents
2. DEPUTY MINISTER'S OFFICE	8 Asst. Forest Superintendents
1 Deputy Minister	4 Timber Inspectors
1 Departmental Solicitor	2 Asst. Timber Inspectors
1 Special Investigator	4 Forest Officers III
1 Clerk (Stationery and Equipment)	62 Forest Officers II
1 Clerk (Personnel Officer)	6 Radio Operators
1 Secretary	13 Forest Officers I
4 Stenographers	14 Lookout Men - classified and full time
1 Clerk	10 Lookout Men - seasonal
1 Clerk-Typist	7 Stenographers
<u>12</u>	7 Forest Clerks
	<u>145</u>
3. PUBLIC LANDS	4b. Forest Surveys Branch
1 Director of Lands	1 Superintendent Forest Surveys
1 Asst. Director of Lands	1 Asst. Superintendent of Inventory
1 Grazing Appraiser	1 Asst. Superintendent of Planning
1 Asst. Grazing Appraiser	6 Forest Engineers
1 Examiner of Soils IV	1 Photogrammetry and Compilation Supervisor
1 Examiner of Soils III	4 Photogrammetrists
9 Examiners of Soils II	4 Draughtsmen and Compilers
1 Homestead Lease Inspector	1 Stenographer
1 Inspector on Collections	1 Clerk-Typist
5 Supervisors	<u>20</u>
14 Correspondence Clerks	4c. Radio Communications Branch
2 Counter Clerks	1 Radio Superintendent
1 Clerk	1 Asst. Radio Superintendent
22 Stenographers	2 Chief Radio Operators
3 Clerk-Typists	6 Radio Technicians
1 Clerk, Calgary	4 Radio Operators
1 Sub-Agent, Peace River	1 Stenographer
1 Sub-Agent, Grande Prairie	<u>15</u>
<u>67</u>	4d. Game Branch
4. FORESTS AND WILDLIFE DIVISION	1 Superintendent of Game
1 Director of Forestry	1 Game Officer III
1 Asst. Director of Forestry and Superintendent of Management	2 Game Officers II
1 Asst. Superintendent of Management	1 Biologist
1 Chief Clerk	13 Game Officers I
1 Timber Administrative Officer	1 Chief Clerk
1 Clerk-Accountant	2 Clerks
4 Correspondence Clerks	1 Stenographer - Calgary
12 Clerks	4 Stenographers
1 Clerk-Typist	<u>26</u>
8 Stenographers	
2 Timber Auditors	
<u>33</u>	

4e. Fisheries Branch

1 Superintendent of Fisheries
 1 Biologist
 1 Fishery Officer IV - Calgary
 1 Fishery Officer III - Calgary
 15 Fishery Officers II
 2 Fishery Officers I
 1 Superintendent Fish
 Hatchery - Calgary
 1 Asst. Superintendent Fish
 Hatchery - Calgary
 5 Hatchery Assistants
 1 Stenographer

29

5. EASTERN ROCKIES
FOREST RESERVES
ADMINISTRATIVE
OFFICE, CALGARY

1 Administrative and
 Liaison Officer
 1 Maintenance Foreman
 (Construction)
 1 Maintenance Foreman
 (Mechanical)
 1 Office Supervisor
 1 Stenographer

5

5a. Crowsnest Forest Reserve

1 Forest Superintendent
 1 Asst. Forest Superintendent
 1 Forest Officer III
 (Headquarters Ranger)
 6 Forest Officers II
 5 Forest Officers I
 1 Lookout Man - Classified -
 Seasonal
 4 Lookout Men - Unclassified -
 Seasonal
 1 Forest Clerk
 1 Stenographer

21

5b. Bow River Forest Reserve

1 Forest Superintendent
 1 Asst. Forest Superintendent
 1 Forest Officer III
 (Headquarters Ranger)
 7 Forest Officers II
 12 Forest Officers I
 3 Lookout Men - Classified -
 Seasonal
 6 Lookout Men - Unclassified -
 Seasonal
 1 Forest Clerk
 1 Stenographer

33

5c. Clearwater Forest Reserve

1 Forest Superintendent
 1 Asst. Forest Superintendent
 1 Forest Officer III
 (Headquarters Ranger)
 4 Forest Officers II
 7 Forest Officers I
 1 Lookout Man - Classified -
 Seasonal
 2 Lookout men - Unclassified -
 Seasonal
 1 Forest Clerk
 1 Stenographer

19

6. TECHNICAL

1 Director Technical Division
 1 Assistant Director
 Technical Division
 1 Surveyor
 1 Interpreter - Aerial Surveys
 4 Photogrammetrists
 1 Engineer
 2 Assistant Surveyors
 1 Senior Draughtsman
 12 Draughtsmen
 1 Inspector and Investigator
 1 Librarian - Aerial Surveys
 1 Supervisor of Photostat
 and Ozalid
 1 Photo Processor
 1 Assistant Photo Processor
 1 Photostat Operator
 1 Ozalid Operator
 5 Clerks
 3 Clerk-Typists
 3 Stenographers

42

7. ACCOUNTS

1 Administrative Accountant
 1 Asst. Administrative Accountant
 4 Supervisors
 25 Clerks
 2 Cashiers
 10 Bookkeeping Machine Operators
 3 Stenographers
 5 Clerk-Typists

51

8. REGISTRATION

1 Registrar
 2 Chief Clerks
 2 Asst. Chief Clerks
 1 Recordak Operator
 17 Clerks
 1 Methods - Analyst
 2 Clerk-Typists
 2 Stenographers

28

9. PROVINCIAL PARKS BOARD

- 1 Superintendent of Parks
- 1 Provincial Park Warden -
Cypress Hills
- 1 Assistant Provincial Park
Warden - Cypress Hills
- 1 Correspondence Clerk

4

552 Total for Department